

PROJECT LOCATION

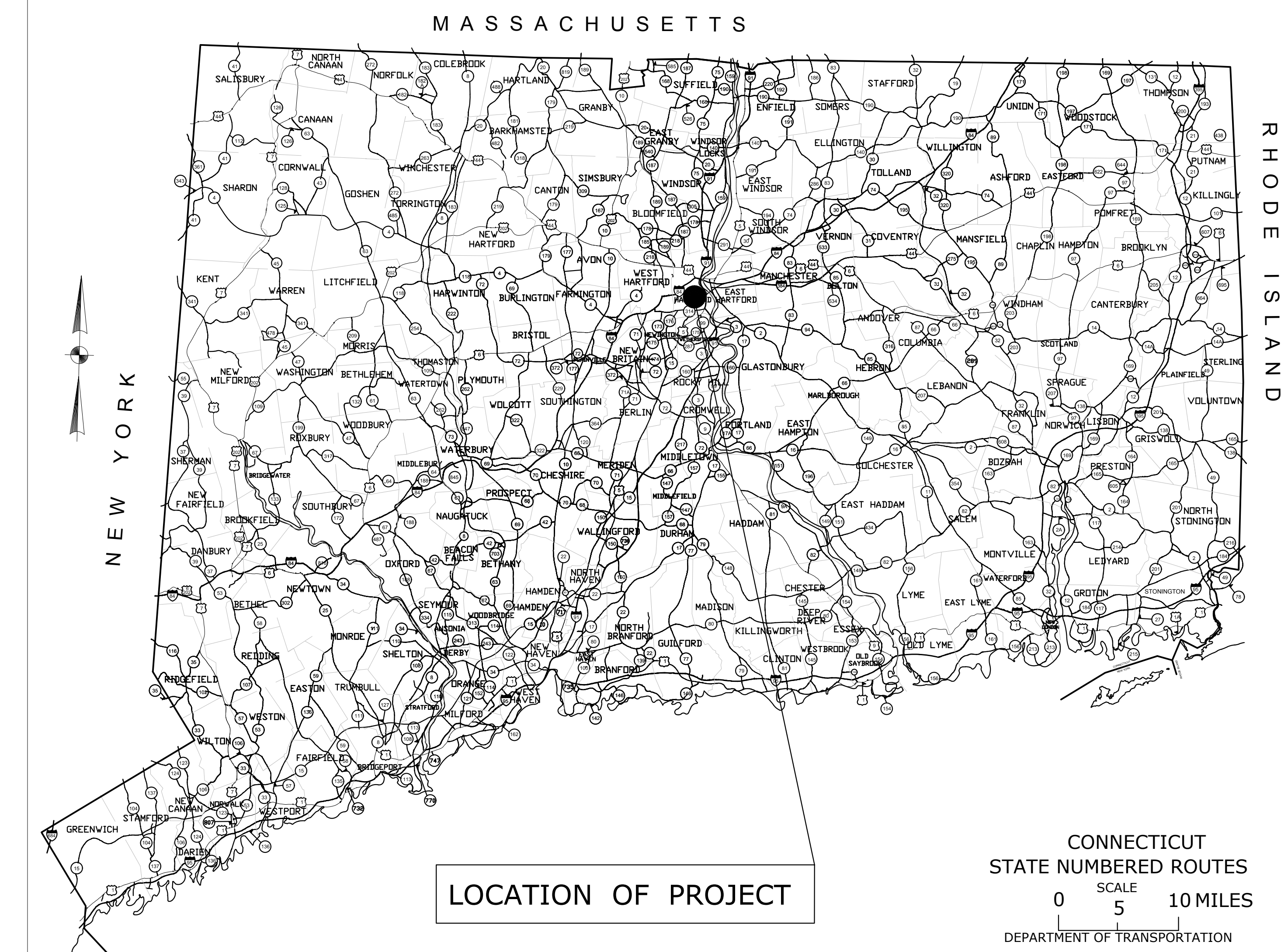
LOCATION PLAN
SCALE: NTS

CITY OF HARTFORD DEPARTMENT OF PUBLIC WORKS PLAN FOR GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS IN THE CITY OF HARTFORD

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

CITY CONTRACT NO. DPW-XX

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



LOCATION OF PROJECT

CONNECTICUT
STATE NUMBERED ROUTES
SCALE
0 5 10 MILES
DEPARTMENT OF TRANSPORTATION

CITY OF HARTFORD STANDARDS GOVERN AS SUPPLEMENTED BY CONNECTICUT STANDARD SPECIFICATIONS, FORM 818 AS SUPPLEMENTED THERETO DATED JAN. 2021

TOWN NO. 63
PROJECT NO.

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 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

ALL DIMENSIONS ARE IN FEET (FT) UNLESS NOTED OTHERWISE

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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
-x-	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

F.H.W.A. REGION NO.	STATE	TOWN	STATE PROJ. NO.	DPW PROJ. NO.	YEAR	ROUTE NO.	SHEET NO.	TOTAL SHEETS
1	CT	HARTFORD	N/A	DPW-	2021	N/A	TS-1	34

DESIGN BY:

BETA Group, Inc.

PER: _____

CONN. P.E. REG. NO. _____

DATE: _____

CERTIFICATION PERTAINS TO SHEETS

RECOMMENDED BY:	FRANK DELLARIPA, PE CITY ENGINEER	DATE: _____
APPROVED BY:	HON. LUKE BRONN MAYOR, CITY OF HARTFORD	DATE: _____

GENERAL CONSTRUCTION NOTES:

- 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.
- 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.
- 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.
- 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.
- OSHA REGULATIONS MAKE IT UNLAWFUL TO OPERATE CRANES, BOOMS, HOISTS, ETC. WITHIN 40' 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.
- 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.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ADJACENT PROPERTY OWNERS OF IMPENDING CONSTRUCTION, AS WELL AS COORDINATING DRIVEWAY AND WALKWAY REMOVAL/REPLACEMENT WORK.
- 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.
- 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.
- 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.
- EXISTING CONDITIONS IS BASED ON CITY OF HARTFORD GIS LAND BASE MAPPING.
- ALL DIMENSIONS, ELEVATIONS, AND EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER.
- COORDINATE INFORMATION AND DIMENSIONS ARE DEEMED TO BE RELIABLE, BUT NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY COORDINATES AND DIMENSIONS PRIOR TO CONSTRUCTION.
- 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.
- THE CITY RESERVES THE RIGHT TO ALTER, CHANGE OR MODIFY THE TRAFFIC OR CONSTRUCTION PHASING PLANS IN THE INTEREST OF PUBLIC SAFETY.
- 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.
- 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.
- 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.
- PAVEMENT MARKINGS SHALL BE EPOXY RESIN TYPE IN ACCORDANCE WITH CONNDOT SPECIFICATION - FORM 817 UNLESS OTHERWISE NOTED.
- ALL DIMENSIONS ARE REFERENCED TO THE BASELINE UNLESS OTHERWISE NOTED OR SHOWN.
- THE CONTRACTOR SHALL CONFIRM LIMITS OF IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION OPERATIONS.
- 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.
- 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.

DEMOLITION NOTES

- 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".
- 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.
- THE CONTRACTOR SHALL PREPARE ALL MANIFEST DOCUMENTS AS REQUIRED PRIOR TO COMMENCEMENT OF DEMOLITION.
- THE CONTRACTOR SHALL PROVIDE DISCONNECT NOTIFICATIONS AS REQUIRED, TO ALL UTILITY COMPANIES AND AGENCIES AT LEAST THREE WEEKS PRIOR TO BEGINNING DEMOLITION.
- BACKFILL DEPRESSIONS AND FILL AND TOPSOIL HOLES WITH APPROVED SOIL MATERIAL. COMPACT, FERTILIZE, SEED AND MULCH DISTURBED AREAS NOT SUBJECT TO FURTHER SITE CONSTRUCTION.
- 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.
- 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.
- 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.
- 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.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS, MATERIALS AND DIMENSIONS PRIOR TO COMMENCING DEMOLITION AND REPORT ANY DISCREPANCIES TO THE ENGINEER.
- 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.
- 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 1 TO 2 WEEKS AND AFTER EVERY MAJOR RAINFALL EVENT.
- ASBESTOS OR OTHER HAZARDOUS MATERIALS, IF FOUND ON SITE, SHALL BE REMOVED BY A LICENSED HAZARDOUS MATERIAL CONTRACTOR.
- 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.
- 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

- 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.
- 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.
- 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 UTILITIES PLAN FOR ADDITIONAL INFO.
- ALL UTILITY CONSTRUCTION IS SUBJECT TO INSPECTION PRIOR TO APPROVAL FOR BACKFILL IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANY, CITY AND CONNDOT REQUIREMENTS.
- 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.
- 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

- 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.
- 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.
- CLEARING LIMITS SHALL BE PHYSICALLY MARKED IN THE FIELD AND APPROVED BY THE CITY REPRESENTATIVE PRIOR TO THE START OF WORK ON THE SITE.
- 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.
- 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 COMPANIES(S)
- 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.
- 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.
- 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.
- PROPOSED GRADES TO SMOOTHLY MEET EXISTING GRADES AT ALL LIMITS OF CONSTRUCTION.
- 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.
- EXISTING PAVEMENT SHALL BE SAWCUT WHERE DRAINAGE PIPE OR STRUCTURES ARE TO BE INSTALLED.
- ALL PIPES SHALL BE LAID IN STRAIGHT ALIGNMENTS AND EVEN GRADES USING A PIPE LASER OR OTHER ACCURATE METHOD.
- 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 ENCASUREMENT.
- CONTRACTOR TO FIELD VERIFY ALL ELEVATIONS PRIOR TO FINAL WORK INSTALLATION. BRING ANY DISCREPANCIES TO THE ENGINEER'S IMMEDIATE ATTENTION.
- ALL SPOT ELEVATIONS AT BUILDING WALLS ARE EXISTING ELEVATIONS UNLESS OTHERWISE NOTED. BRING ANY DISCREPANCIES TO THE ENGINEER'S IMMEDIATE ATTENTION.
- 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.
- 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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Revisions	By	Date	Notice
			Manual revisions to this drawing are prohibited. The use of this drawing by any corporation, or by any person, for any reason, without written authorized consent of the City of Hartford is prohibited.

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

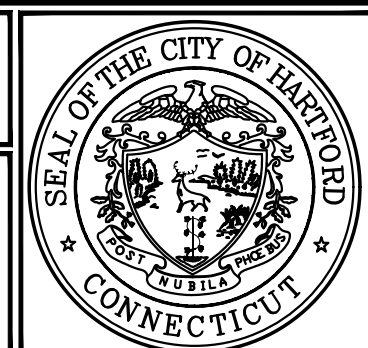
BETA Proj. No. 6982 DPW- August 6, 2021

BETA 1010 WETHERSFIELD AVENUE
SUITE 300
HARTFORD, CONNECTICUT 06114
TEL: 860-610-1320
FAX: 860-610-1322

UNLESS OTHERWISE NOTED OR CHANGED BY REVISION

City of Hartford, Connecticut
Department of Public Works

GENERAL NOTES



Sheet Name
GN-1

Project No.
6982



SHEET 1

SHEET 2

SHEET 3

SHEET 4

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:

1. DATA FROM MDC GIS, PROVIDED BY CITY OF HARTFORD, DATED SEPTEMBER 22, 2015
2. FIELD EDITS FROM SITE REVIEW, PROVIDED BY BETA GROUP, INC., DATED JANUARY 1, 2017
3. GOODWIN PARK POND SITE PLAN, PROVIDED BY DEPT. OF ENGINEERING, HARTFORD CT, DATED SEPTEMBER 2001, AS-BUILT CONTOURS FOR POND BOTTOM TAKEN FROM DATA PROVIDED BY DPW PROJECT #19-13
4. AS-BUILT LIGHTPOLE LOCATIONS TAKEN FROM DATA PROVIDED BY DPW PROJECT 2017.013 BY MAIER DESIGN GROUP

Revisions	By	Date	Notice	Sign-Offs	By	Date
			Manual revisions to this drawing are prohibited. The use of this drawing by any corporation, or by any person, for any reason, without written authorized consent of the City of Hartford is prohibited.	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 DPW- August 6, 2021

BETA
100 WETHERSFIELD AVENUE
HARTFORD, CONNECTICUT 06114
TEL: 860-513-1100
FAX: 860-513-1102

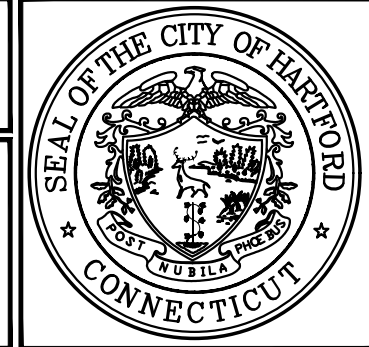
SCALE IN FEET: 1"=120'

City of Hartford, Connecticut
Department of Public Works

EXISTING CONDITIONS PLAN INDEX SHEET

Sheet Name
ECS-0

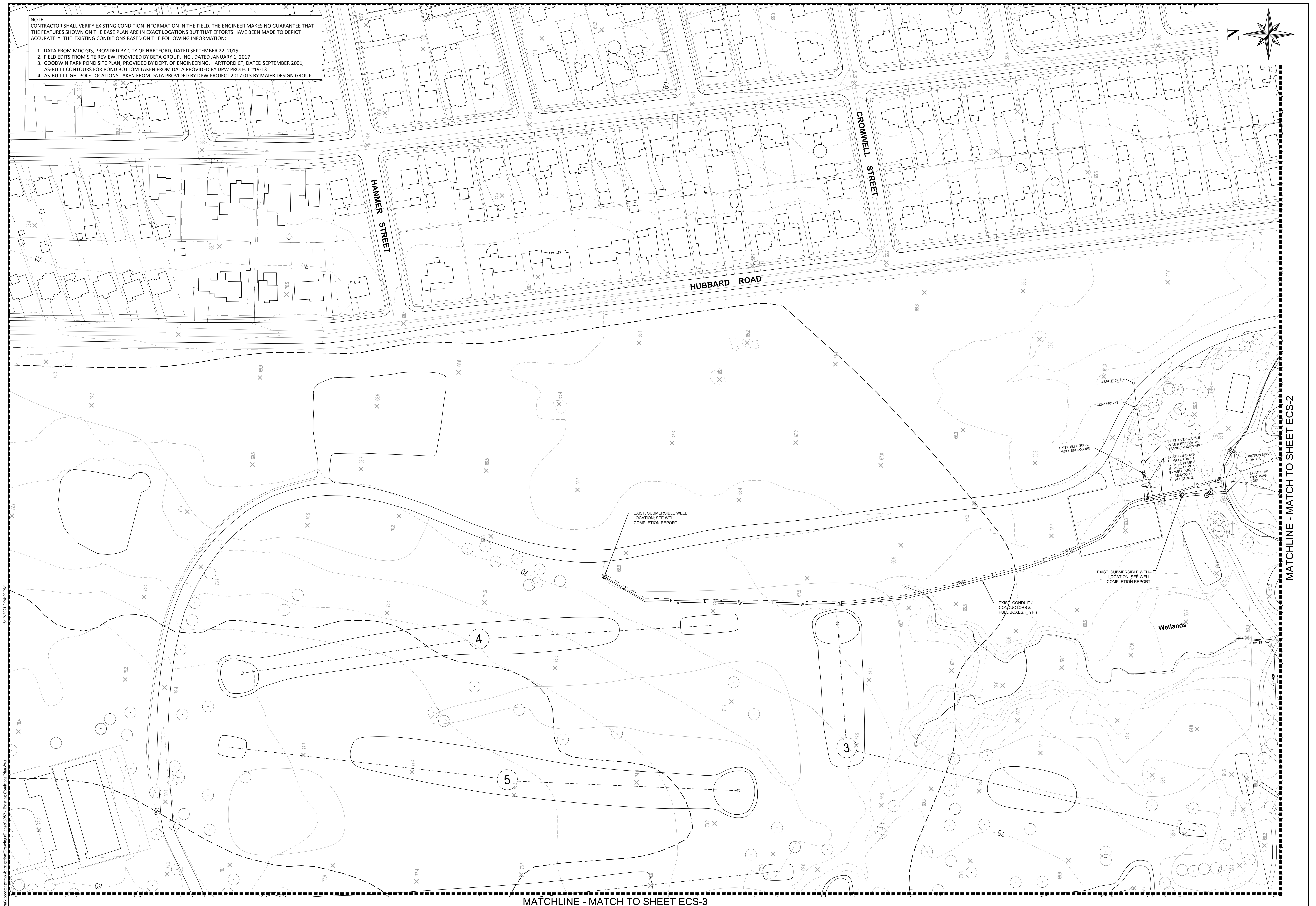
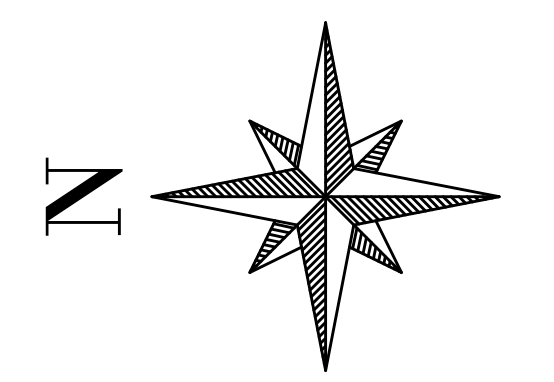
Project No.
6982



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E:\6982\6982_Hartford_GoodwinPark_BoostPump_IrrigationDrawings\Plan\6982_ExistingConditionsPlan.dwg

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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2. FIELD EDITS FROM SITE REVIEW, PROVIDED BY BETA GROUP, INC., DATED JANUARY 1, 2017
3. GOODWIN PARK POND SITE PLAN, PROVIDED BY DEPT. OF ENGINEERING, HARTFORD CT, DATED SEPTEMBER 2001, AS-BUILT CONTOURS FOR POND BOTTOM TAKEN FROM DATA PROVIDED BY DPW PROJECT #19-13
4. AS-BUILT LIGHTPOLE LOCATIONS TAKEN FROM DATA PROVIDED BY DPW PROJECT 2017.013 BY MAIER DESIGN GROUP



MATCHLINE - MATCH TO SHEET ECS-2

MATCHLINE - MATCH TO SHEET ECS-3

Revisions	By	Date	Notice

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

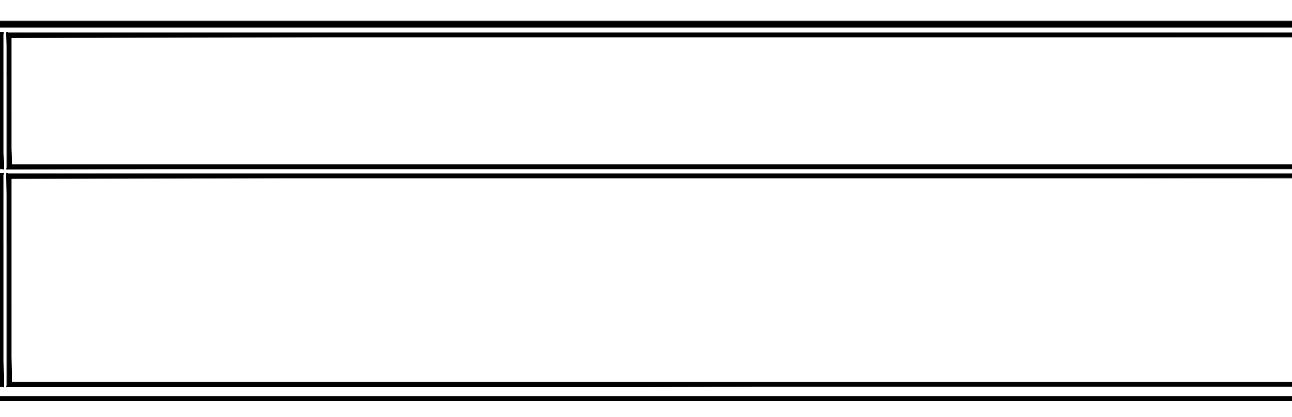
**GOODWIN PARK IRRIGATION
 & BOOSTER PUMP IMPROVEMENTS**
 HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 DPW- August 6, 2021

BETA 1010 WETHERSFIELD AVENUE
 SUITE 200
 HARTFORD, CONNECTICUT 06114
 TEL: 860-313-1200
 FAX: 860-313-1992

SCALE IN FEET: 1"=50'

UNLESS OTHERWISE NOTED OR CHANGED BY REVISION.



City of Hartford, Connecticut
 Department of Public Works

EXISTING CONDITIONS PLAN (SHEET 1)

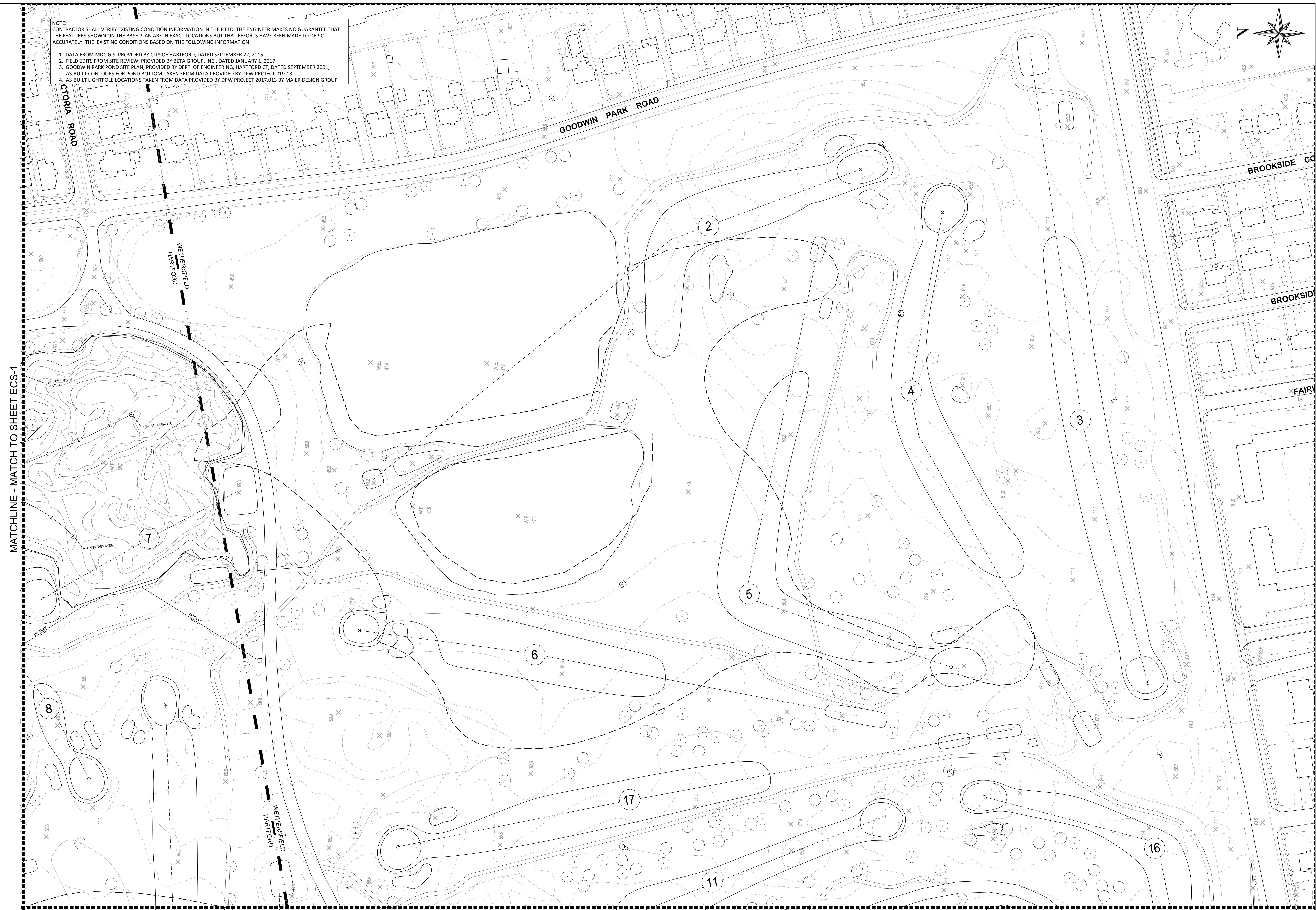
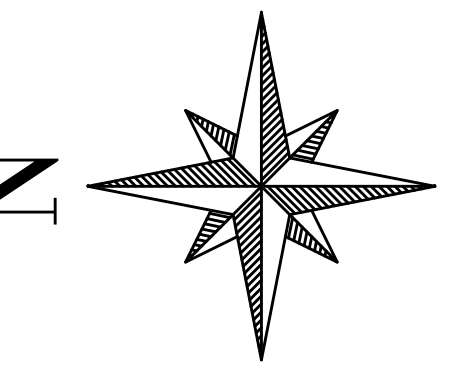
Sheet Name
ECS-1

Project No.
 6982

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

BETA Proj. No. 6982 DPW- August 6, 2021

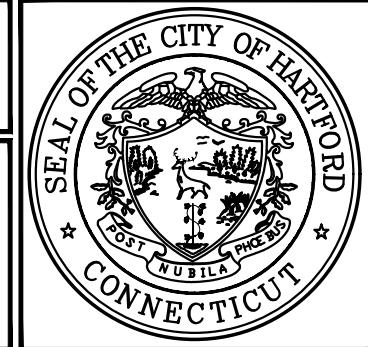
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 SUITE 200
 HARTFORD, CONNECTICUT 06114
 TEL: 860-513-1200
 FAX: 860-513-1502

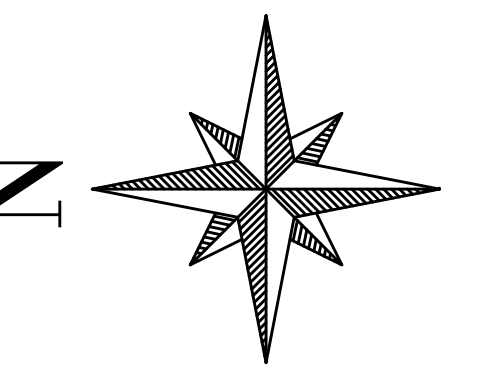
SCALE IN FEET: 1"=50'
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City of Hartford, Connecticut
 Department of Public Works

EXISTING CONDITIONS PLAN (SHEET 2)

Sheet Name
ECS-2
 Project No.
 6982





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MATCHLINE - MATCH TO SHEET ECS-4

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				Checked	JB	11/25
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GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 DPW- August 6, 2021

BETA 100 WETHERFIELD AVENUE
HARTFORD, CONNECTICUT 06114
TEL: 860-513-1200 FAX: 860-513-1592

SCALE IN FEET: 1"=50'

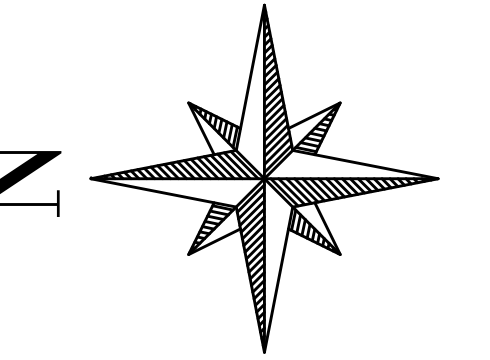
UNLESS OTHERWISE NOTED OR CHANGED BY REVISION

City of Hartford, Connecticut
Department of Public Works

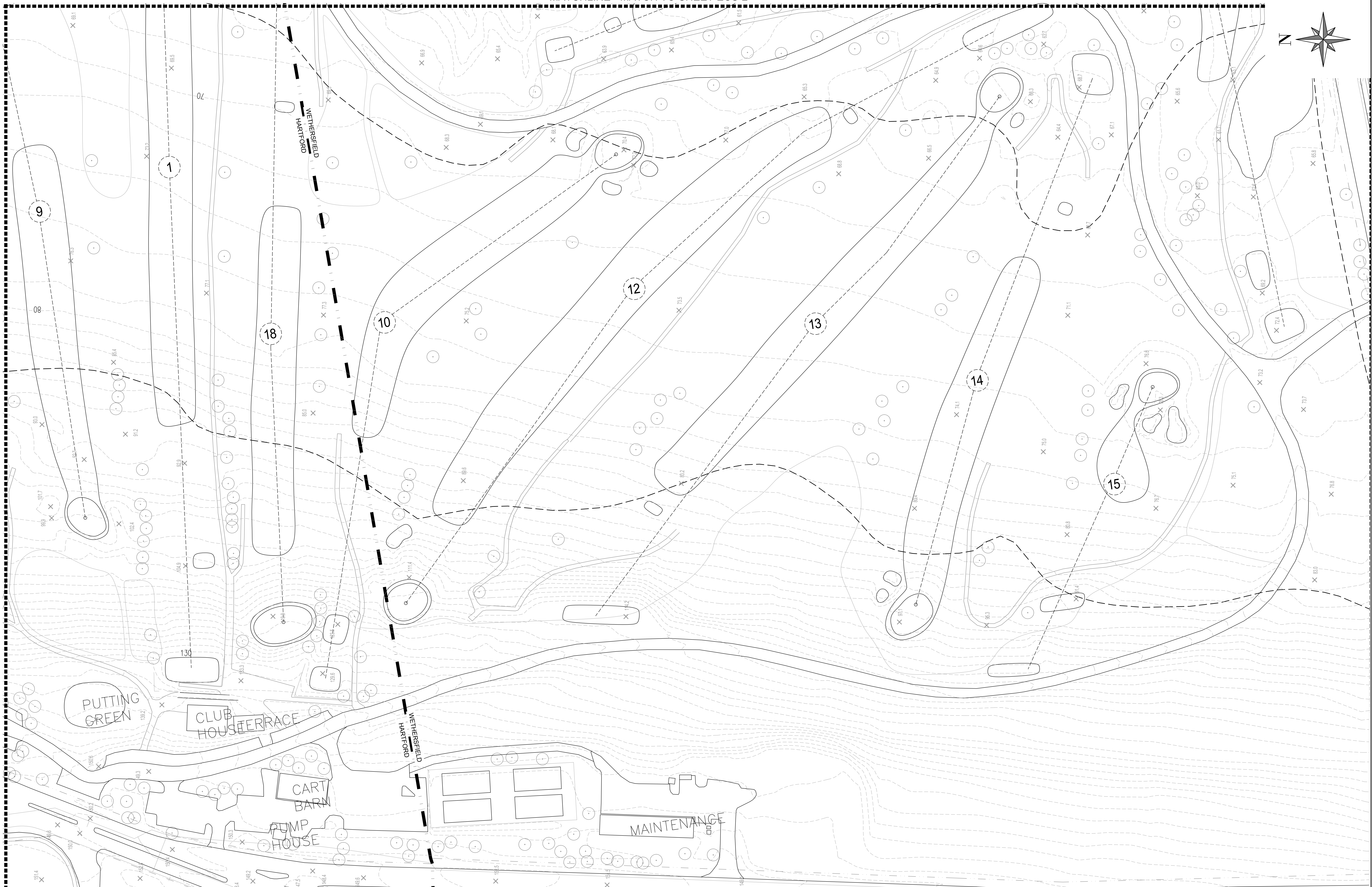
EXISTING CONDITIONS PLAN (SHEET 3)

Sheet Name: **ECS-3**
Project No.: 6982

MATCHLINE - MATCH TO SHEET ECS-2



MATCHLINE - MATCH TO SHEET ECS-3



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 100 WETHERSFIELD AVENUE
 06105 HARTFORD, CONNECTICUT 06114
 TEL: 860-513-1200
 FAX: 860-513-1502

SCALE IN FEET: 1"=50'

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BETA Proj. No. 6982	DPW-	August 6, 2021
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City of Hartford, Connecticut
 Department of Public Works

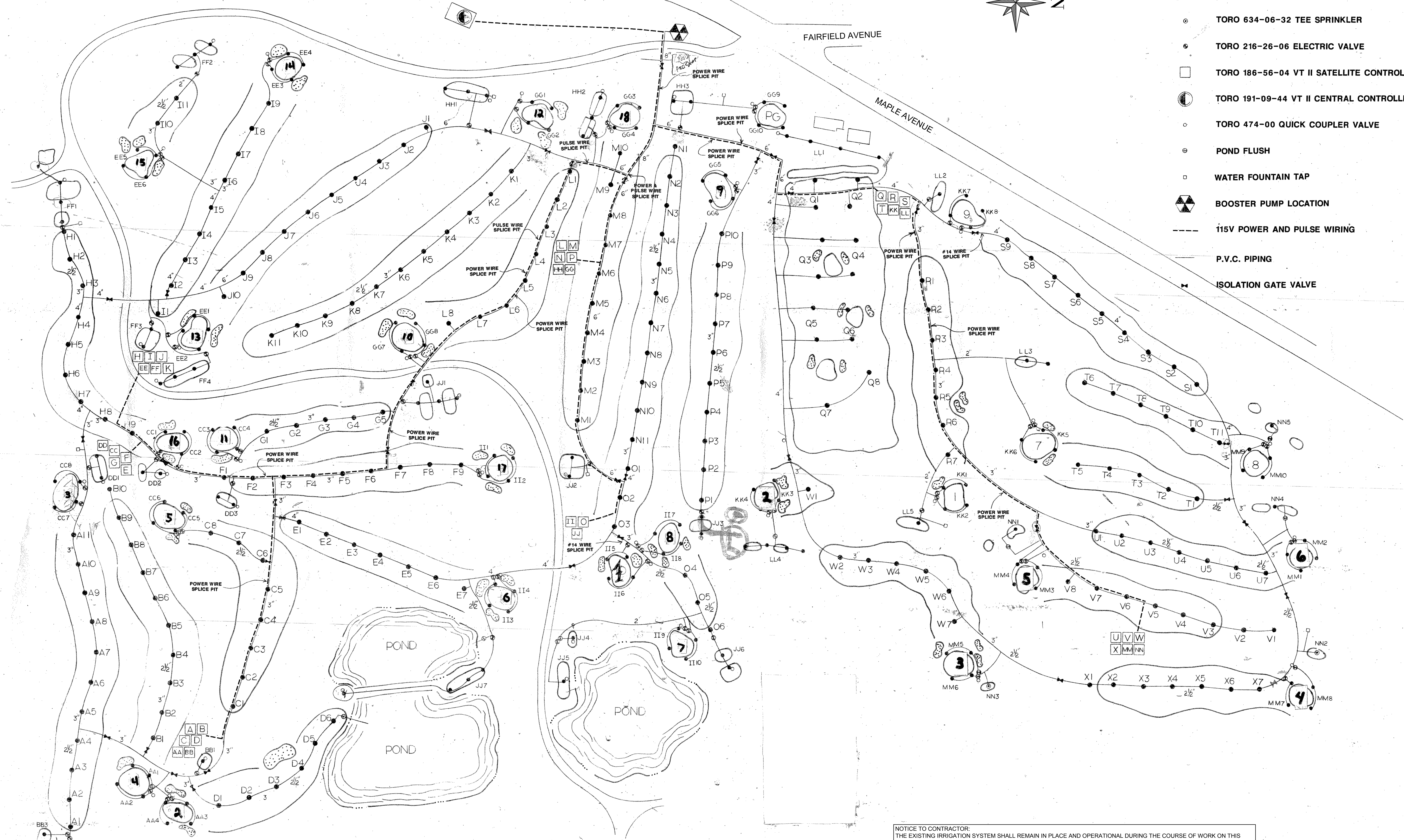
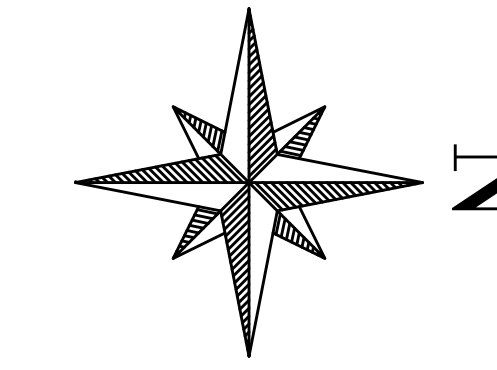
EXISTING CONDITIONS PLAN (SHEET 4)

Sheet Name	ECS-4
Project No.	6982

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LEGEND:

- TORO 674-06-74 FAIRWAY SPRINKLER
- TORO 634-02-32 GREEN & TEE SPRINKLER
- TORO 634-06-32 TEE SPRINKLER
- TORO 216-26-06 ELECTRIC VALVE
- TORO 186-56-04 VT II SATELLITE CONTROLLER
- TORO 191-09-44 VT II CENTRAL CONTROLLER
- TORO 474-00 QUICK COUPLER VALVE
- ⊙ POND FLUSH
- WATER FOUNTAIN TAP
- ⚡ BOOSTER PUMP LOCATION
- 115V POWER AND PULSE WIRING
- P.V.C. PIPING
- ▶ ISOLATION GATE VALVE



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NOTICE TO CONTRACTOR:
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THE DEMOLITION AND ABANDONMENT OF THE EXISTING IRRIGATION SYSTEM WILL INVOLVE THE REMOVAL OF ALL EXISTING SPRINKLERS, VALVES, CONTROLLERS, QUICK COUPLERS, POND FLUSH AND WATER TAPS FOR ITEMS THAT ARE REDUNDANT WITHIN THE LIMIT OF WORK. EXISTING JUNCTION AND VALVE BOXES SHALL BE REMOVED AND WIRES SHALL BE CUT A MINIMUM 10" BELOW GRADE AND ABANDONED. CONTROL WIRES THAT OPERATE WORK OUTSIDE THE LIMIT OF WORK SHALL BE REROUTED AS NECESSARY TO MAINTAIN THE SYSTEM. FEEDER AND MAIN LINE PIPING MAY BE ABANDONED IN PLACE HOWEVER ALL NECESSARY LINES SHALL BE PROPERLY CAPPED TO REMAIN FUNCTIONAL. OPEN RIGID PIPES TO BE ABANDONED (PVC, CPVC, ETC) SHALL BE CAPPED AND PLUGGED OPEN FLEXIBLE PIPES (POLYETHYLENE) SHALL BE CAPPED OR CRIMPED. 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.

GOODWIN PARK GOLF COURSE
 HARTFORD, CONN.
AS-BUILT IRRIGATION PLAN

DESIGNED BY: **tpc** turt products corporation
 157 Moody Road, Hartford, CT 06102
 7 Coppage Drive, Worcester, MA 01602
 (860) 763-3581 (508) 731-2291

12/20/89 DATE
 REVISION
 1" = 100' SCALE
 DESIGNER

Revisions	By	Date	Notice

Sign-Offs	By	Date
Drawn	NS/CC	11/25
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Recommended		
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BETA 100 WETHERSFIELD AVENUE
 HARTFORD, CONNECTICUT 06114
 TEL: 860-233-1200 FAX: 860-233-1992

SCALE IN FEET: 1"=100'

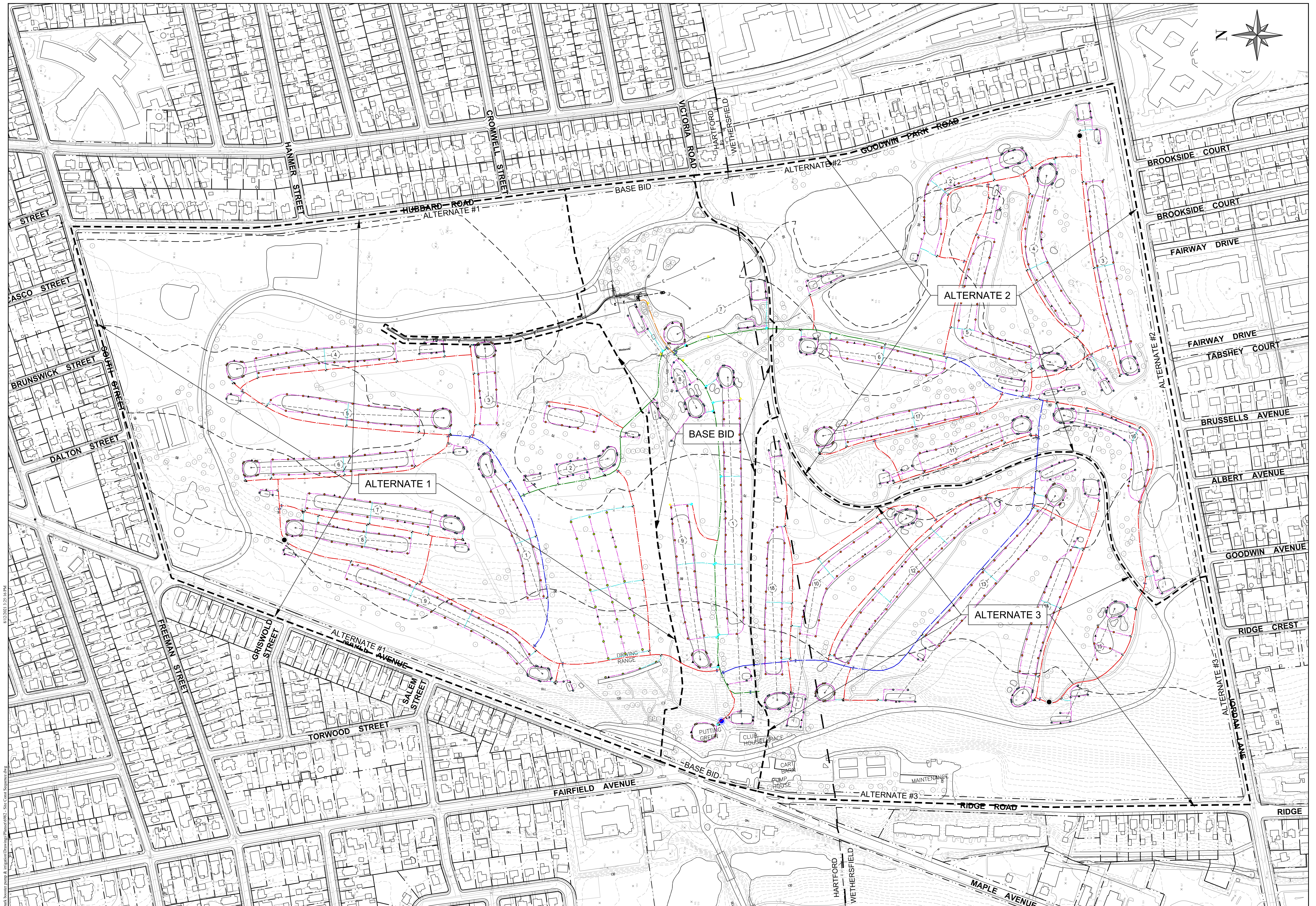
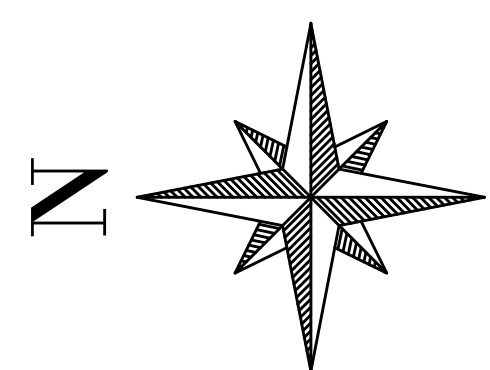
City of Hartford, Connecticut
 Department of Public Works

EXISTING IRRIGATION SYSTEM PLAN

BETA Proj. No. 6982 DPW- August 6, 2021

Sheet Name: **DP-1**
 Project No. 6982

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Recorded		

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

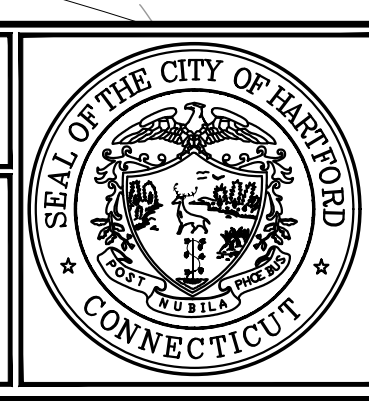
BETA Proj. No. 6982 DPW- August 6, 2021

BETA 100 WETHERSFIELD AVENUE
HARTFORD, CONNECTICUT 06114
TEL: 860-513-1100 FAX: 860-513-1102

SCALE IN FEET: 1"=120'

City of Hartford, Connecticut
Department of Public Works

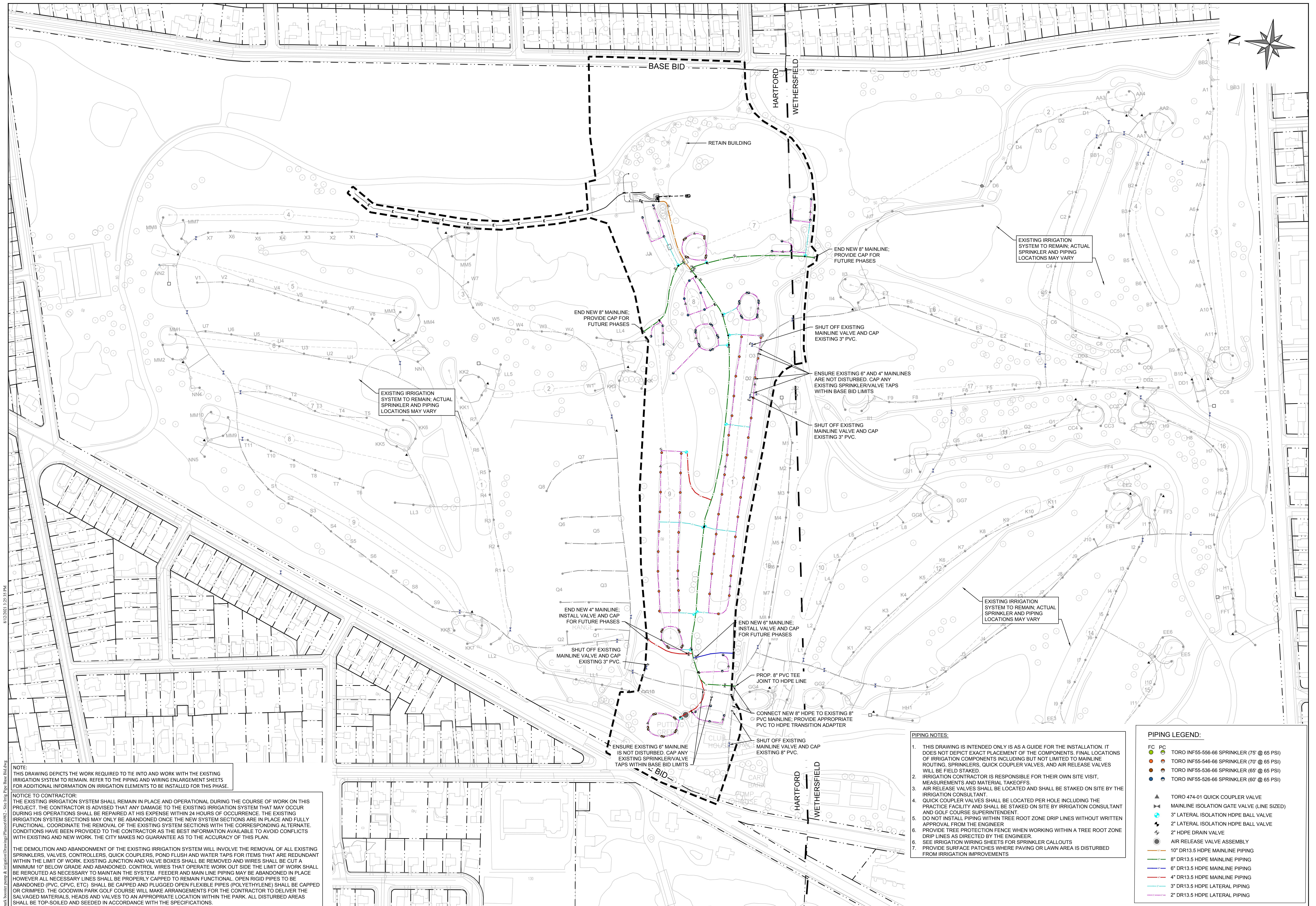
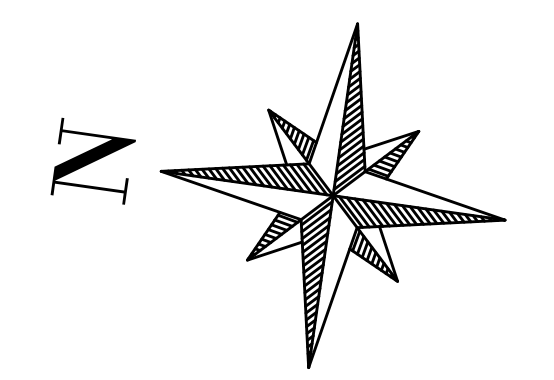
SITE CONSTRUCTION PLAN (OVERALL)



Sheet Name
SCS

Project No.
6982

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NOTE:
THIS DRAWING DEPICTS THE WORK REQUIRED TO BE INTO AND WORK WITH THE EXISTING IRRIGATION SYSTEM TO REFER TO THE PIPING AND WIRING ENLARGED SHEETS FOR ADDITIONAL INFORMATION ON IRRIGATION ELEMENTS TO BE INSTALLED FOR THIS PHASE.

NOTICE TO CONTRACTOR:
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THE DEMOLITION AND ABANDONMENT OF THE EXISTING IRRIGATION SYSTEM WILL INVOLVE THE REMOVAL OF ALL EXISTING SPRINKLERS, VALVES, CONTROLLERS, QUICK COUPLERS, POND FLUSH AND WATER TAPS FOR ITEMS THAT ARE REDUNDANT WITHIN THE LIMIT OF WORK. EXISTING JUNCTION AND VALVE BOXES SHALL BE REMOVED AND WIRES SHALL BE CUT A MINIMUM 10" BELOW GRADE AND ABANDONED. CONTROL WIRES THAT OPERATE WORK OUT SIDE THE LIMIT OF WORK SHALL BE REROUTED AS NECESSARY TO MAINTAIN THE SYSTEM. FEEDER AND MAIN LINE PIPING MAY BE ABANDONED IN PLACE HOWEVER ALL NECESSARY LINES SHALL BE PROPERLY CAPPED TO REMAIN FUNCTIONAL. OPEN RIGID PIPES TO BE ABANDONED (PVC, CPVC, ETC) SHALL BE CAPPED AND PLUGGED OPEN FLEXIBLE PIPES (POLYETHYLENE) SHALL BE CAPPED OR CRIMPED. 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:**
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 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.
 7. 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

Revisions	By	Date	Notice

Sign-Offs	By	Date
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100 WETHERSFIELD AVENUE
HARTFORD, CONNECTICUT 06114
TEL: 860-513-1200
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SCALE IN FEET: 1"=100'

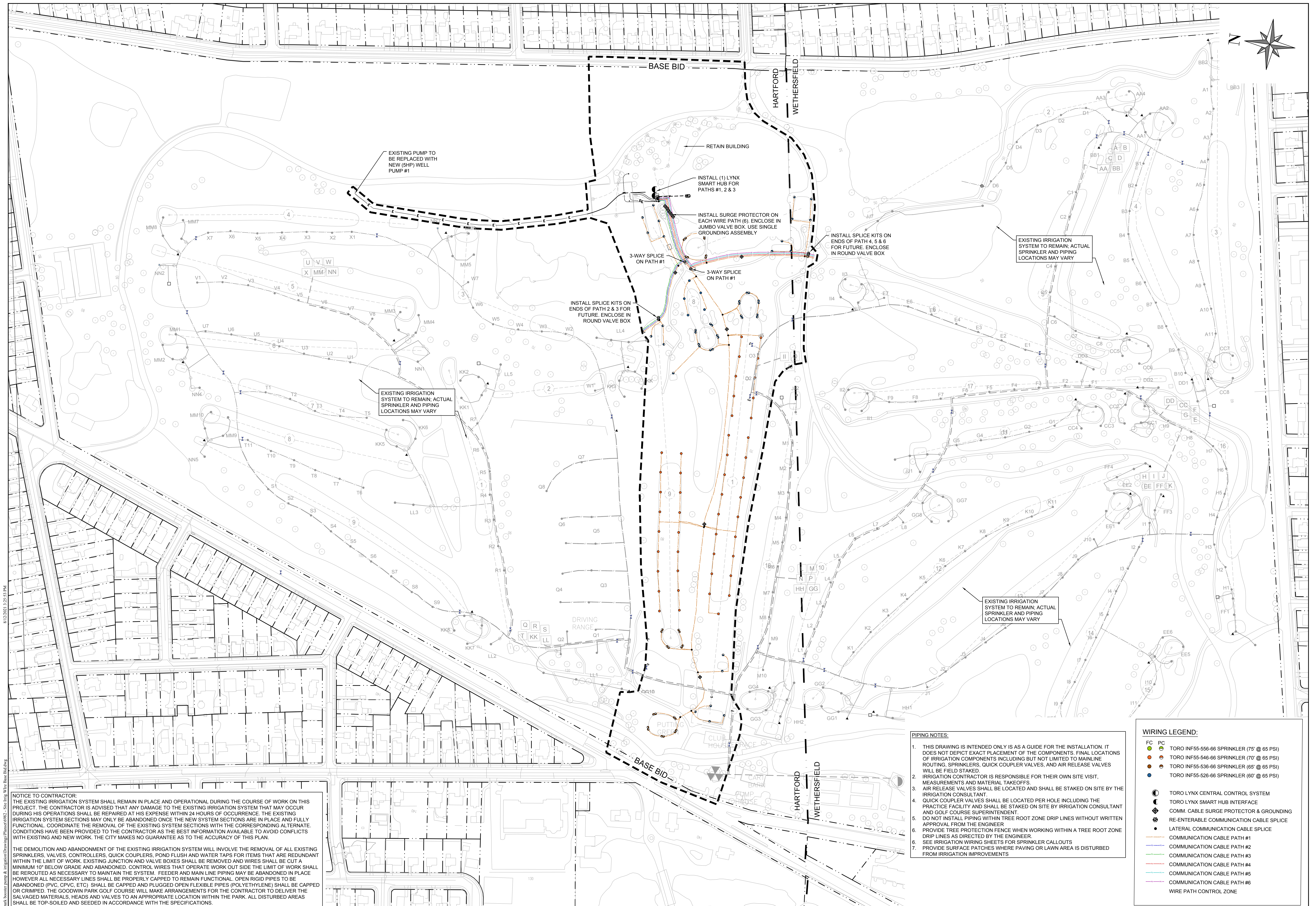
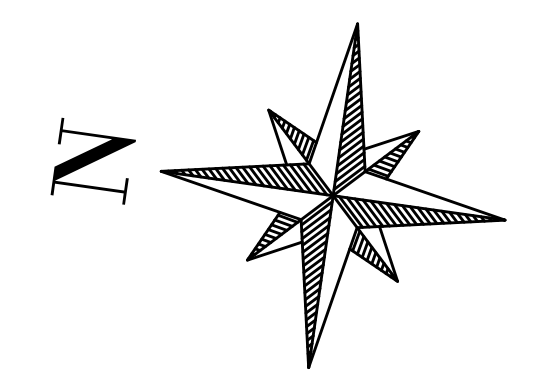
GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 DPW- August 6, 2021

City of Hartford, Connecticut
Department of Public Works

SITE IRRIGATION PIPING BASE BID

Sheet Name: **SIPB**
Project No. 6982



NOTICE TO CONTRACTOR:
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 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

- WIRING LEGEND:**
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 - 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
 - TORO LYNX SMART HUB INTERFACE
 - COMM. CABLE SURGE PROTECTOR & GROUNDING
 - RE-ENTERABLE COMMUNICATION CABLE SPLICE
 - LATERAL 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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 TEL: 860-234-1232
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SCALE IN FEET: 1"=100'

City of Hartford, Connecticut
 Department of Public Works

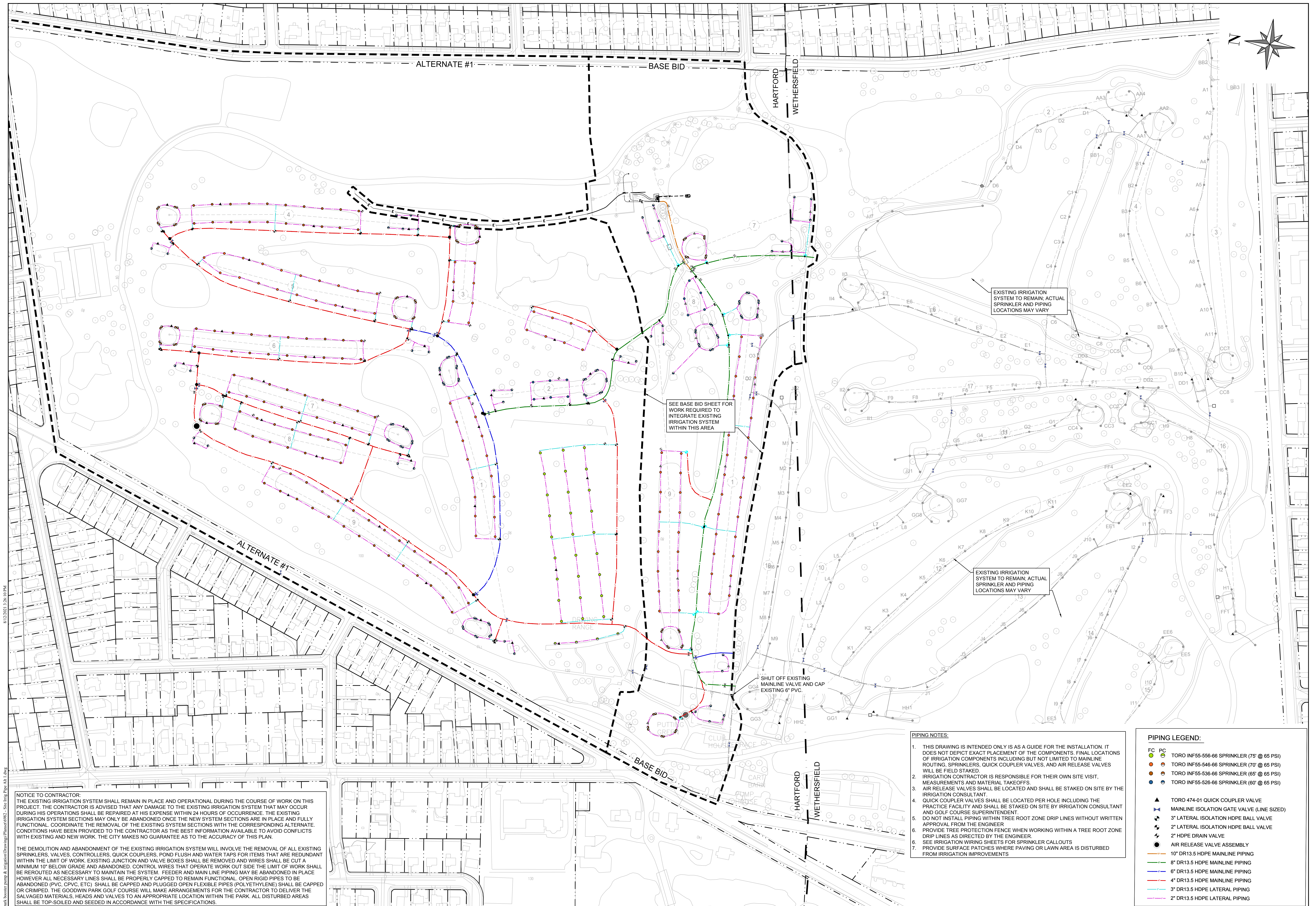
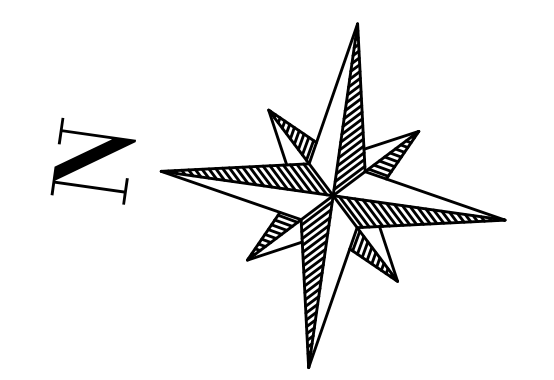
GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
 HARTFORD, CONNECTICUT 06103

SITE IRRIGATION WIRING BASE BID

Sheet Name
SIWB

Project No.
6982

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EXISTING IRRIGATION SYSTEM TO REMAIN; ACTUAL SPRINKLER AND PIPING LOCATIONS MAY VARY

SEE BASE BID SHEET FOR WORK REQUIRED TO INTEGRATE EXISTING IRRIGATION SYSTEM WITHIN THIS AREA

EXISTING IRRIGATION SYSTEM TO REMAIN; ACTUAL SPRINKLER AND PIPING LOCATIONS MAY VARY

SHUT OFF EXISTING MAINLINE VALVE AND CAP EXISTING 6\"/>

- PIPING NOTES:**
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 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
 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)
 - OC TORO INF55-546-66 SPRINKLER (70' @ 65 PSI)
 - OC TORO INF55-536-66 SPRINKLER (65' @ 65 PSI)
 - OC TORO INF55-526-66 SPRINKLER (60' @ 65 PSI)
 - ▲ TORO 474-01 QUICK COUPLER VALVE
 - ▲ MAINLINE ISOLATION GATE VALVE (LINE SIZED)
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 - 4" DR13.5 HDPE MAINLINE PIPING
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Revisions	By	Date	Notice

GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
 HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 DPW- August 6, 2021

BETA
 1010 WETHERSFIELD AVENUE
 HARTFORD, CONNECTICUT 06114
 TEL: 860-510-1100
 FAX: 860-510-1102

SCALE IN FEET: 1"=100'

City of Hartford, Connecticut
 Department of Public Works

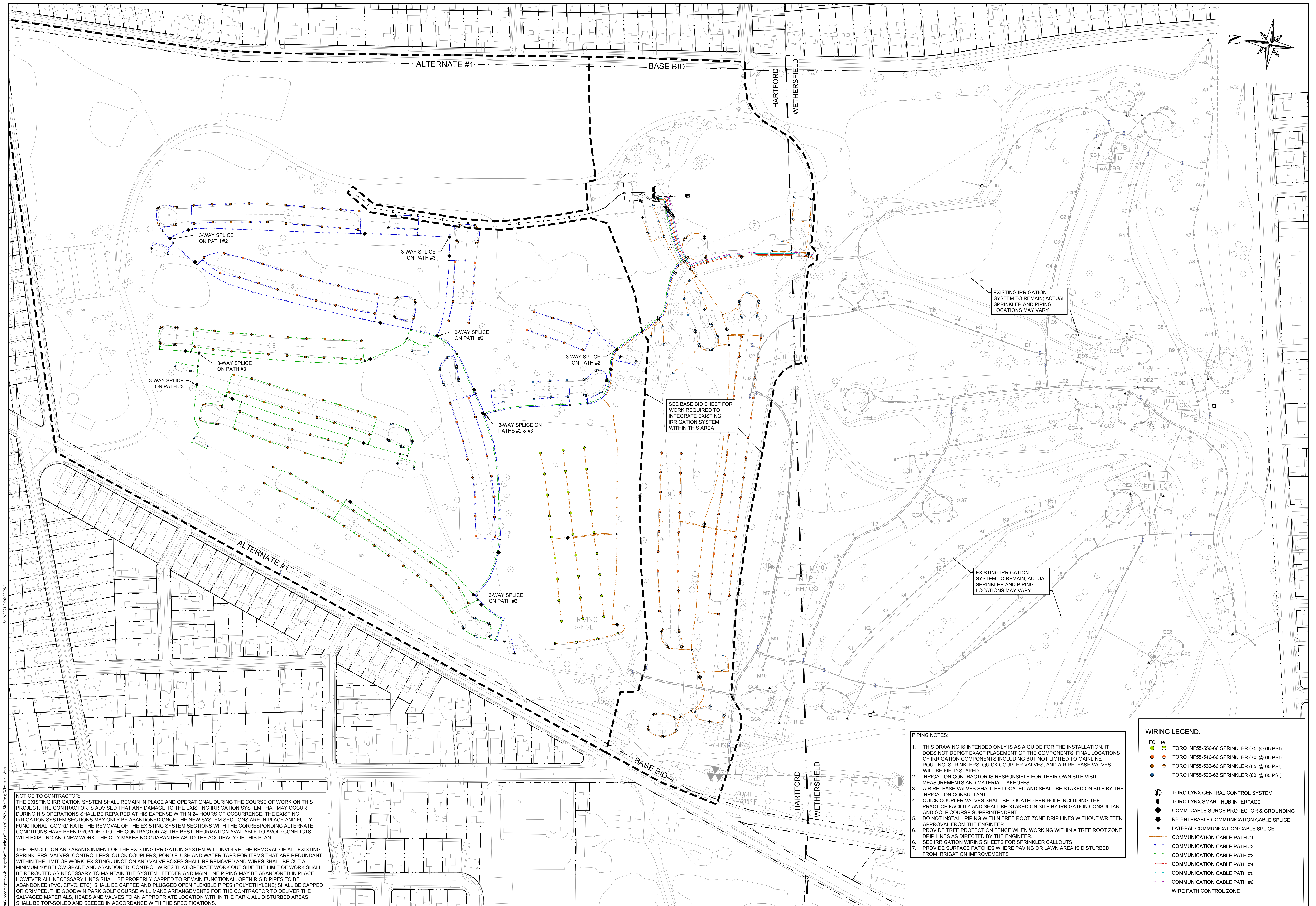
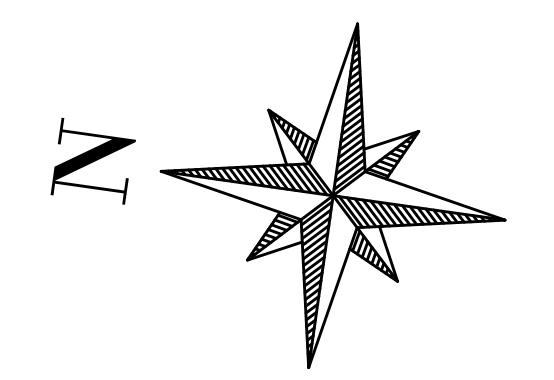
SITE IRRIGATION PIPING ALTERNATE 1

Sheet Name
SIPA-1

Project No.
6982



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 - 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
 - TORO LYNX SMART HUB INTERFACE
 - ◆ COMM. CABLE SURGE PROTECTOR & GROUNDING
 - ◆ RE-ENTERABLE COMMUNICATION CABLE SPLICE
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 - COMMUNICATION CABLE PATH #4
 - COMMUNICATION CABLE PATH #5
 - COMMUNICATION CABLE PATH #6
 - WIRE PATH CONTROL ZONE

Revisions	By	Date	Notice

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

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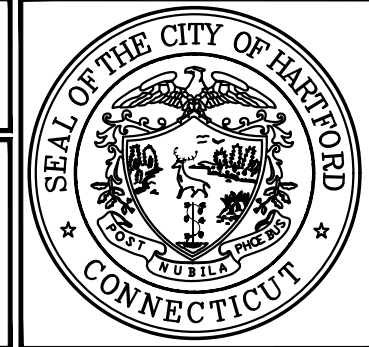
GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
 HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 DPW- August 6, 2021

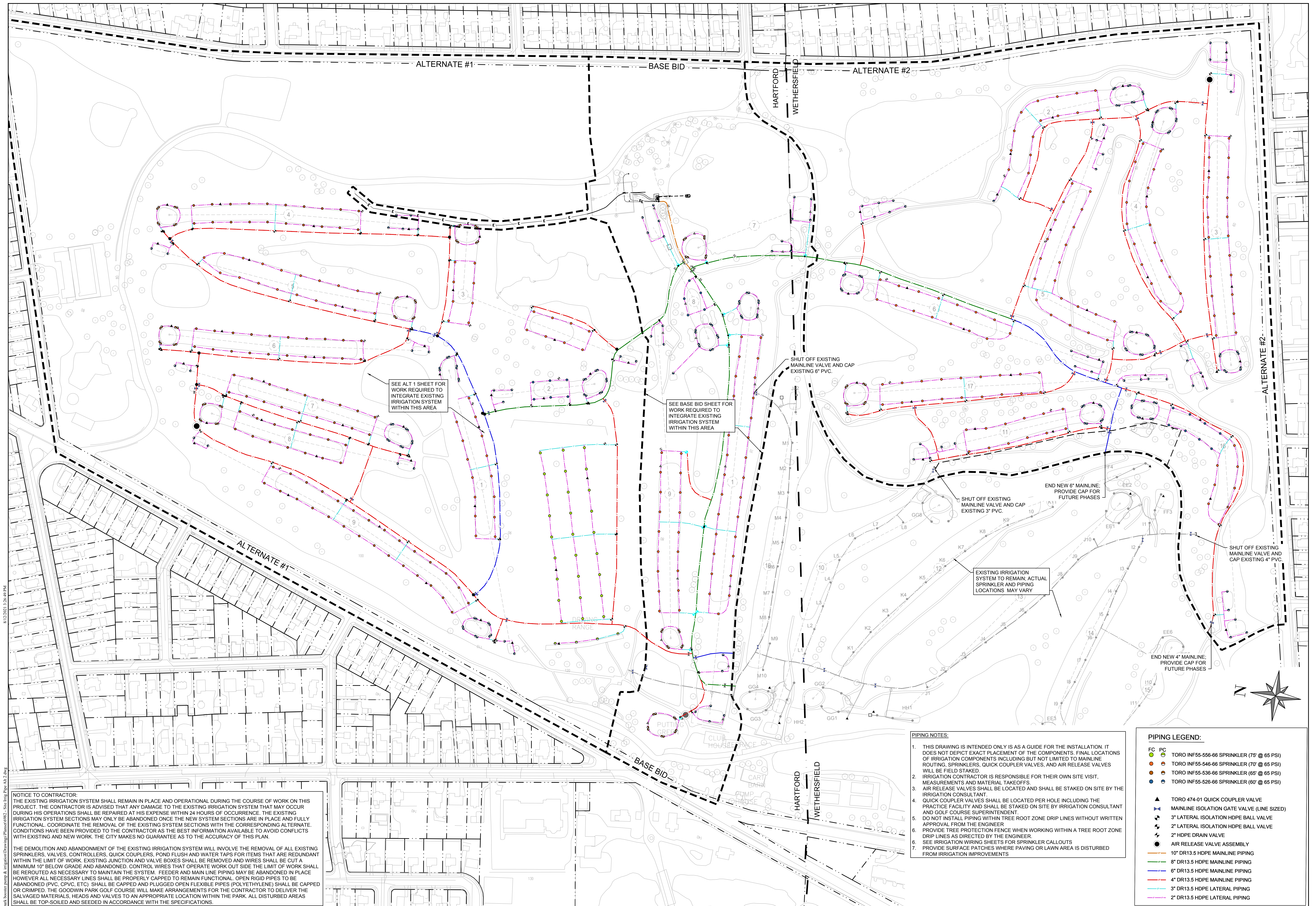
City of Hartford, Connecticut
 Department of Public Works

SITE IRRIGATION WIRING ALTERNATE 1

Sheet Name: **SIWA-1**
 Project No.: 6982



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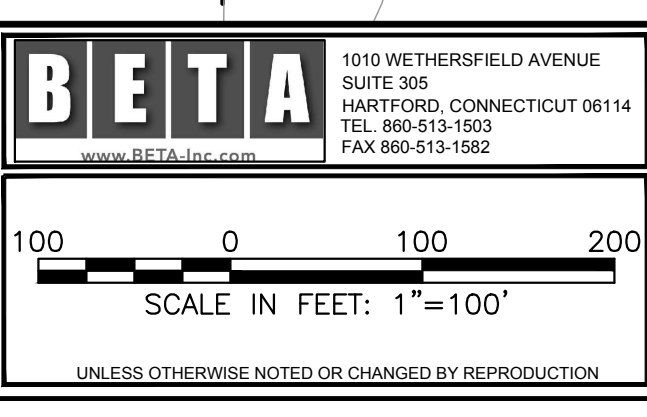
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Revisions	By	Date	Notice

GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
 HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 DPW- August 6, 2021



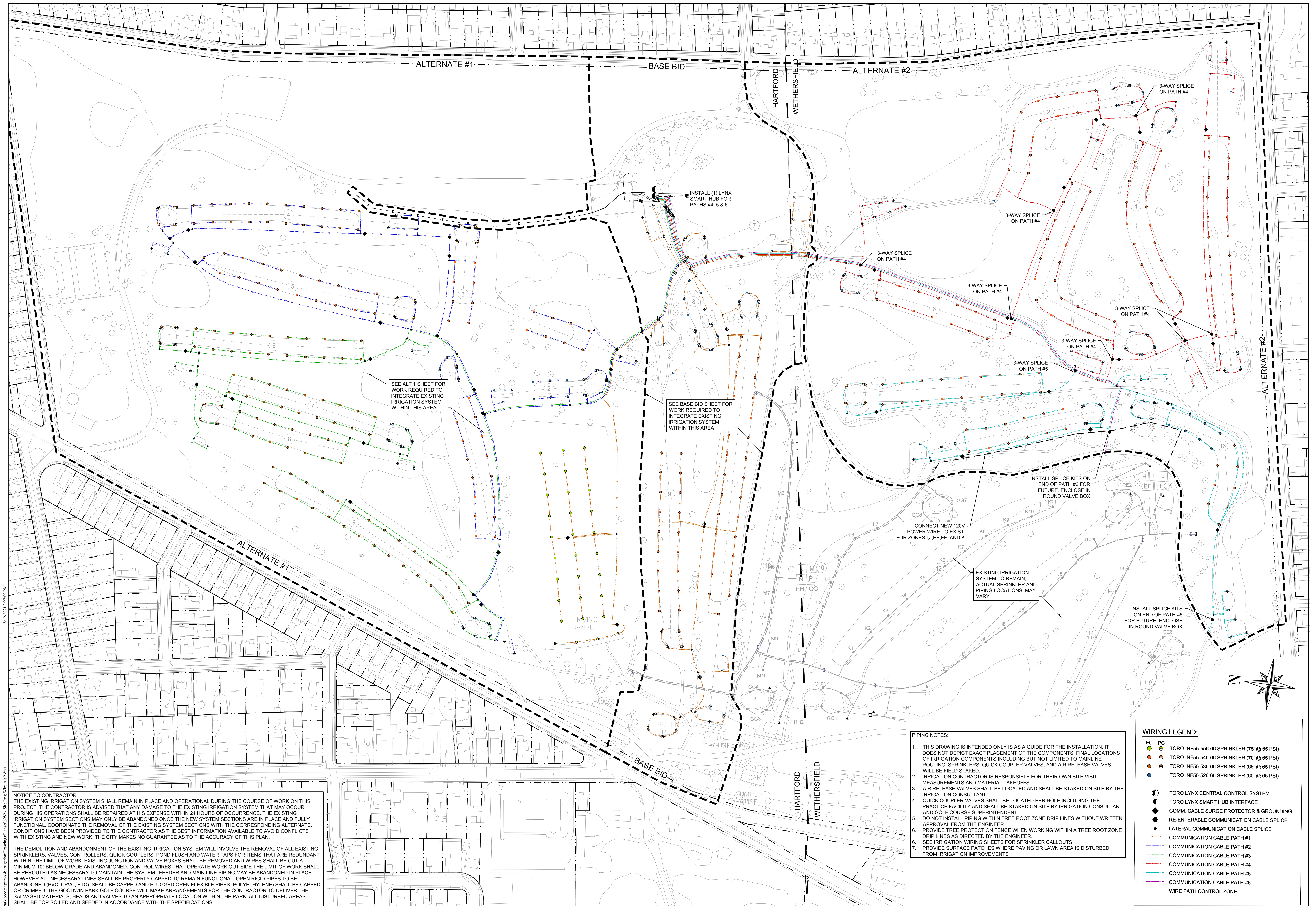
City of Hartford, Connecticut
 Department of Public Works

SITE IRRIGATION PIPING ALTERNATE 2

Sheet Name
SIPA-2

Project No.
6982

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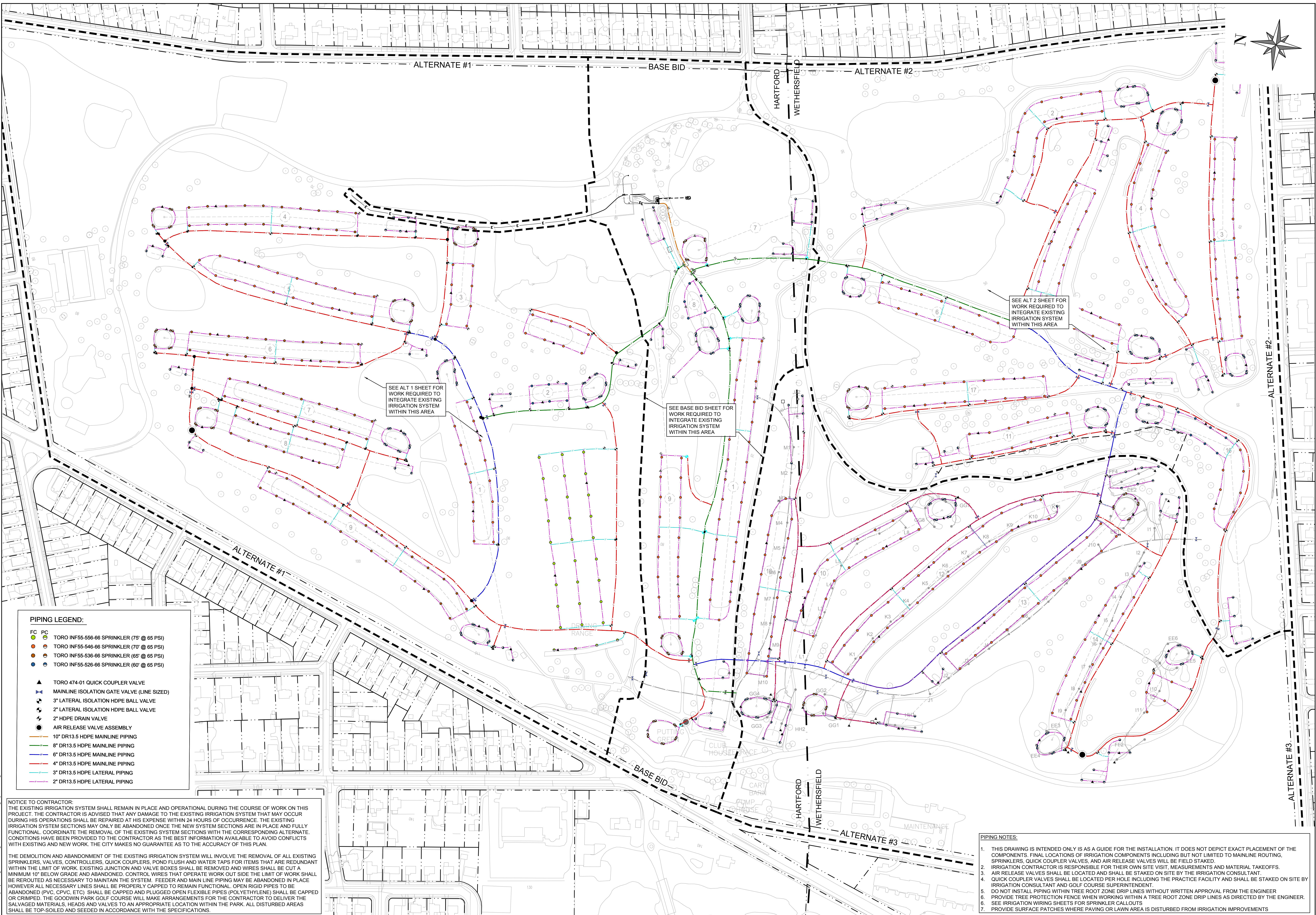
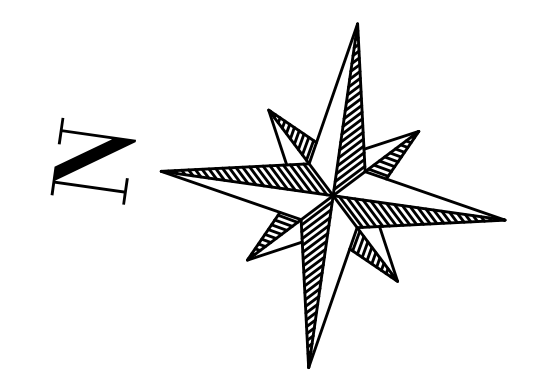
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SITE IRRIGATION WIRING ALTERNATE 2

Sheet Name: **SIWA-2**
 Project No.: 6982

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PIPING LEGEND:

FC	PC	TORO INF55-556-66 SPRINKLER (75' @ 65 PSI)
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 8. 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 DPW- August 6, 2021

BETA 1010 WETHERSFIELD AVENUE
 HARTFORD, CONNECTICUT 06114
 TEL: 860-513-1200
 FAX: 860-513-1502

SCALE IN FEET: 1"=100'

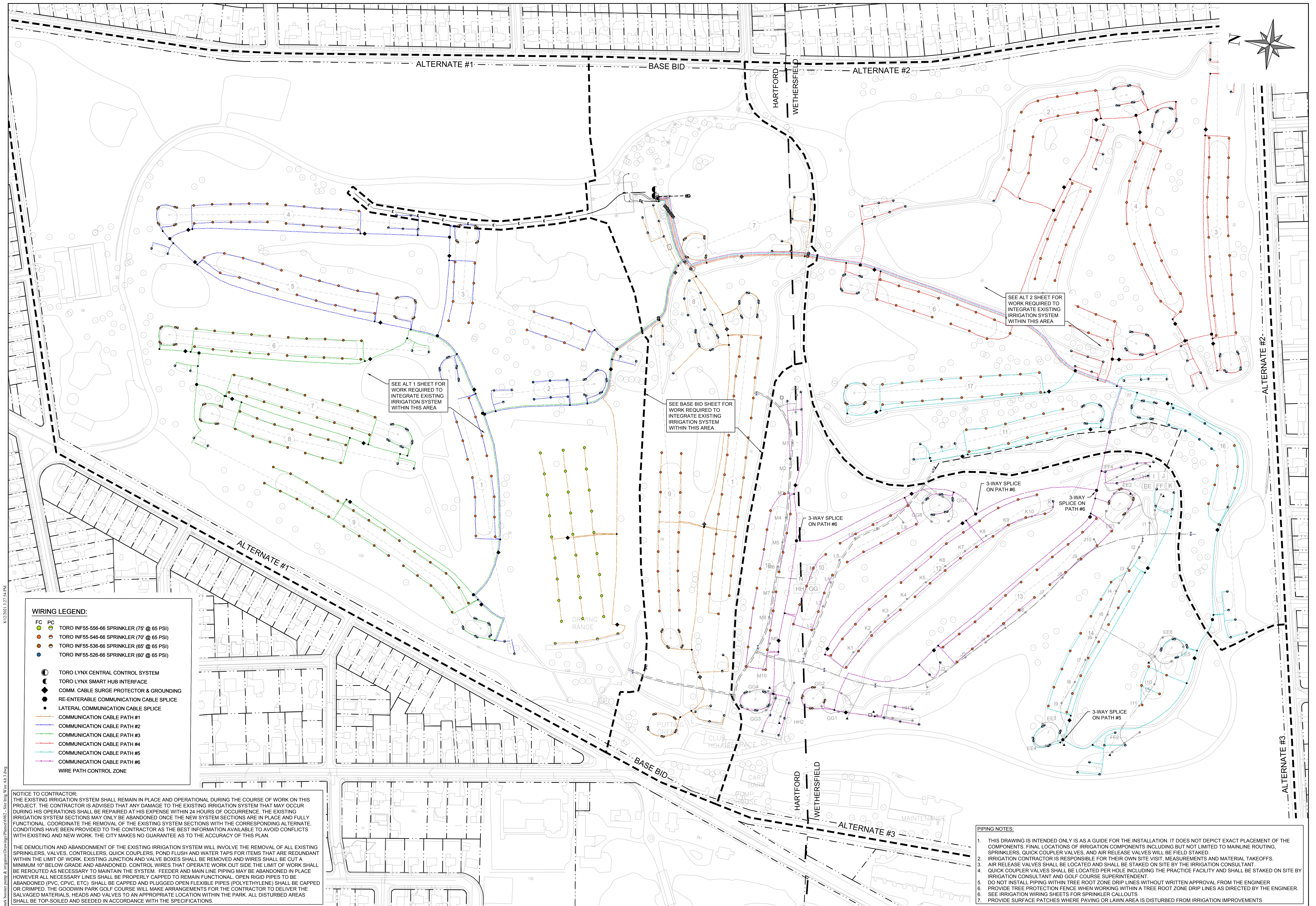
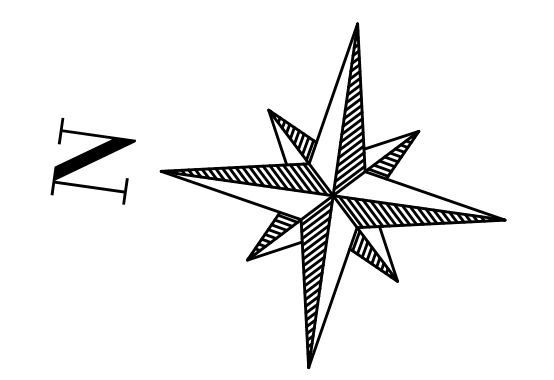
City of Hartford, Connecticut
 Department of Public Works

SITE IRRIGATION PIPING ALTERNATE 3

Sheet Name
SIPA-3

Project No.
 6982

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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
⊙		TORO LYNX SMART HUB INTERFACE
◆		COMM. CABLE SURGE PROTECTOR & GROUNDING
◆		RE-ENTERABLE COMMUNICATION CABLE SPLICE
●		LATERAL 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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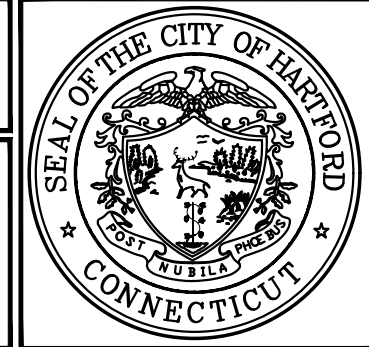
City of Hartford, Connecticut
 Department of Public Works

GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
 HARTFORD, CONNECTICUT 06103

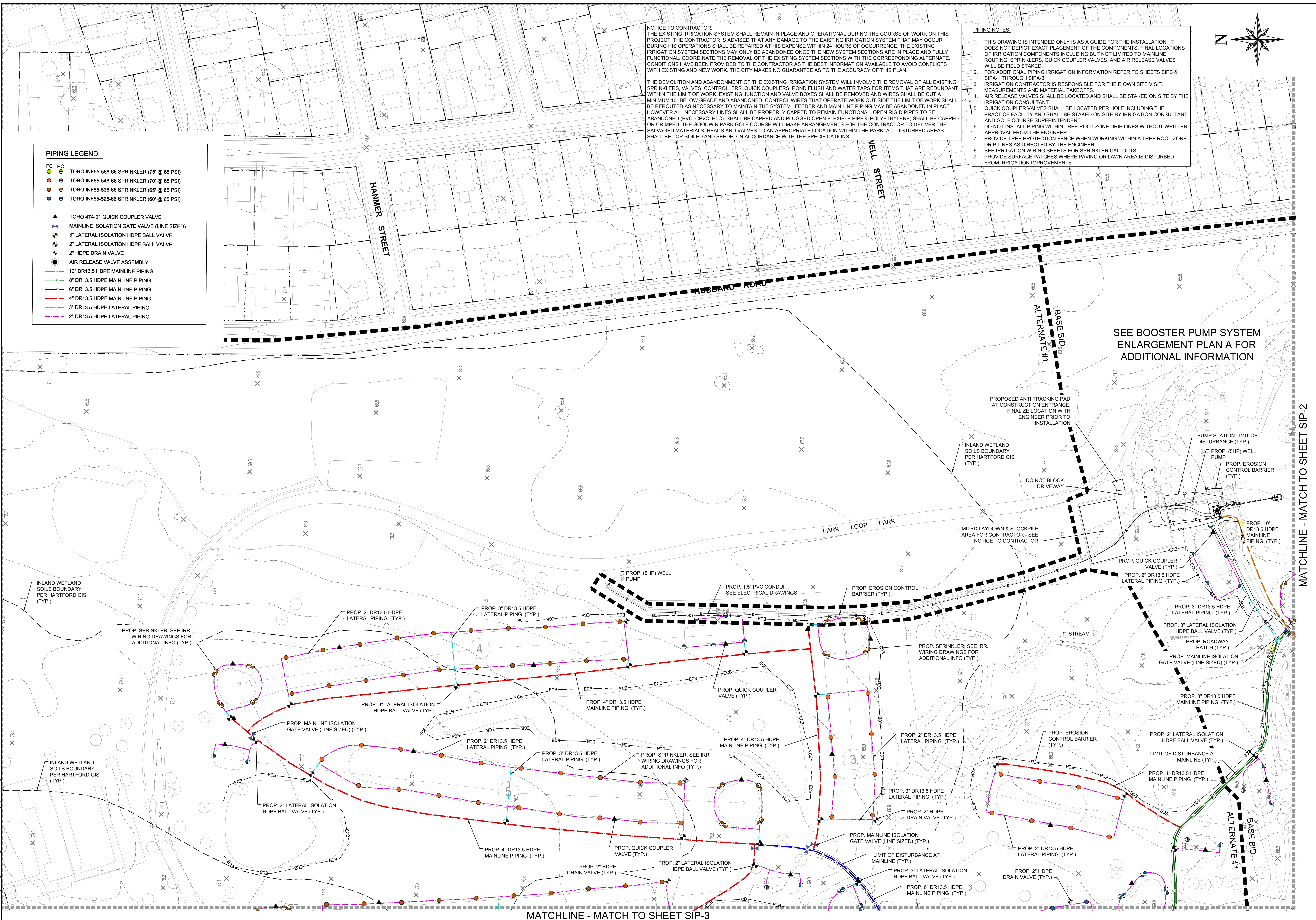
SITE IRRIGATION WIRING ALTERNATE 3

BETA Proj. No. 6982 DPW- August 6, 2021

Sheet Name: **SIWA-3**
 Project No. 6982



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 - AIR RELEASE VALVE ASSEMBLY
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SEE BOOSTER PUMP SYSTEM ENLARGEMENT PLAN A FOR ADDITIONAL INFORMATION

MATCHLINE - MATCH TO SHEET SIP-2

MATCHLINE - MATCH TO SHEET SIP-3

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GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
 HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 DPW- August 6, 2021

BETA
 1010 WETHERSFIELD AVENUE
 HARTFORD, CONNECTICUT 06114
 TEL: 860-513-1200
 FAX: 860-513-1992

SCALE IN FEET: 1"=50'

City of Hartford, Connecticut
 Department of Public Works

SITE IRRIGATION PIPING ENLARGEMENT PLAN (SHEET 1)

Sheet Name: **SIP-1**
 Project No.: 6982

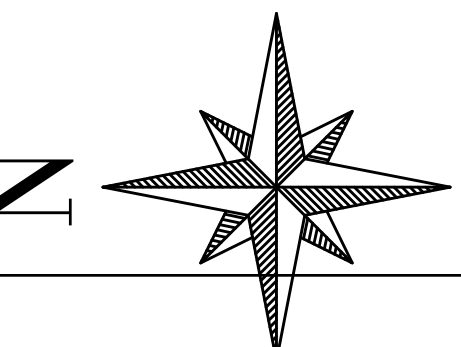
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PIPING LEGEND:

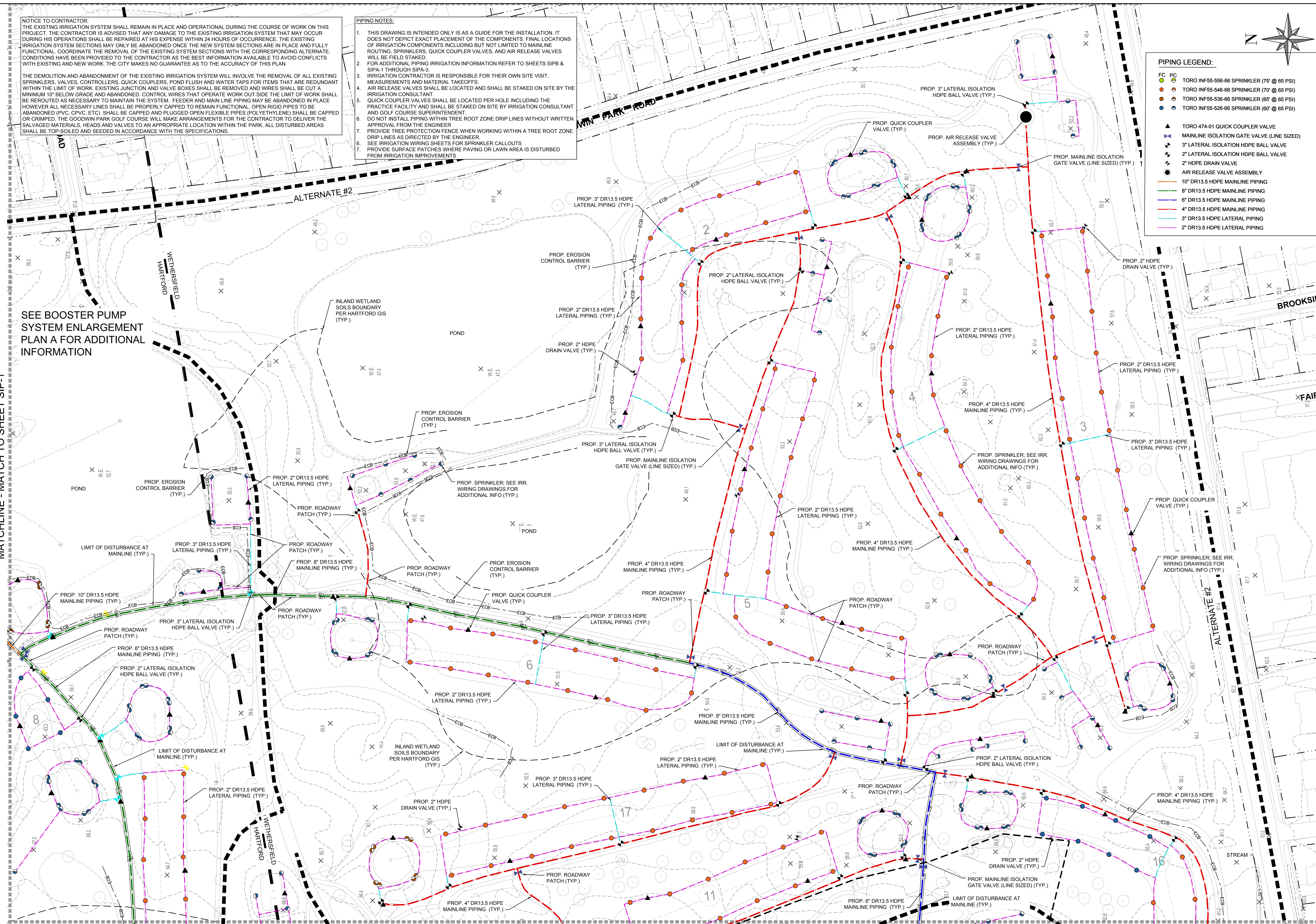
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SEE BOOSTER PUMP SYSTEM ENLARGEMENT PLAN A FOR ADDITIONAL INFORMATION

MATCHLINE - MATCH TO SHEET SIP-1

MATCHLINE - MATCH TO SHEET SIP-4



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Revisions	By	Date	Notice	Sign-Offs	By	Date
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GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
 HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 DPW- August 6, 2021

BETA
 100 WETHERFIELD AVENUE
 SUITE 200
 HARTFORD, CONNECTICUT 06114
 TEL: 860-319-1200
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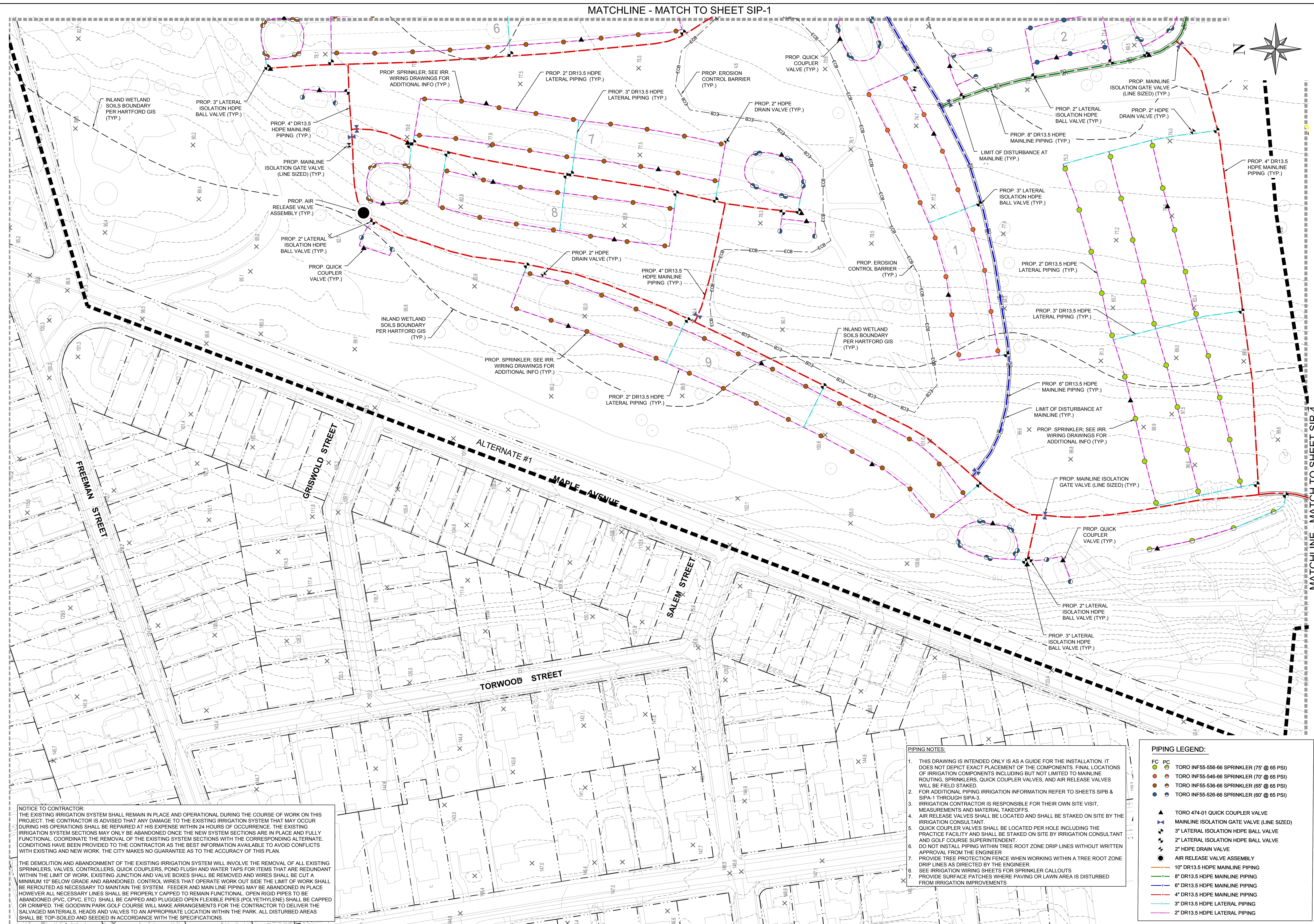
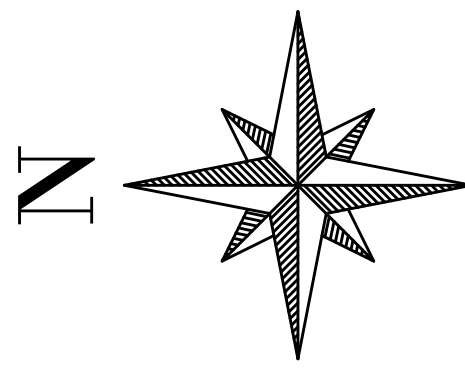
SCALE IN FEET: 1"=50'

City of Hartford, Connecticut
 Department of Public Works

SITE IRRIGATION PIPING ENLARGEMENT PLAN (SHEET 2)

Sheet Name
SIP-2

Project No.
 6982



MATCHLINE - MATCH TO SHEET SIP-4

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GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
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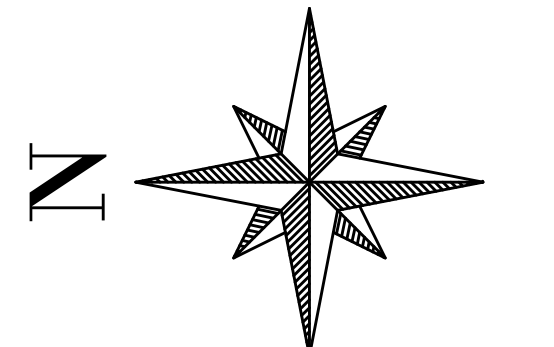
SITE IRRIGATION PIPING ENLARGEMENT PLAN (SHEET 3)

Sheet Name
SIP-3

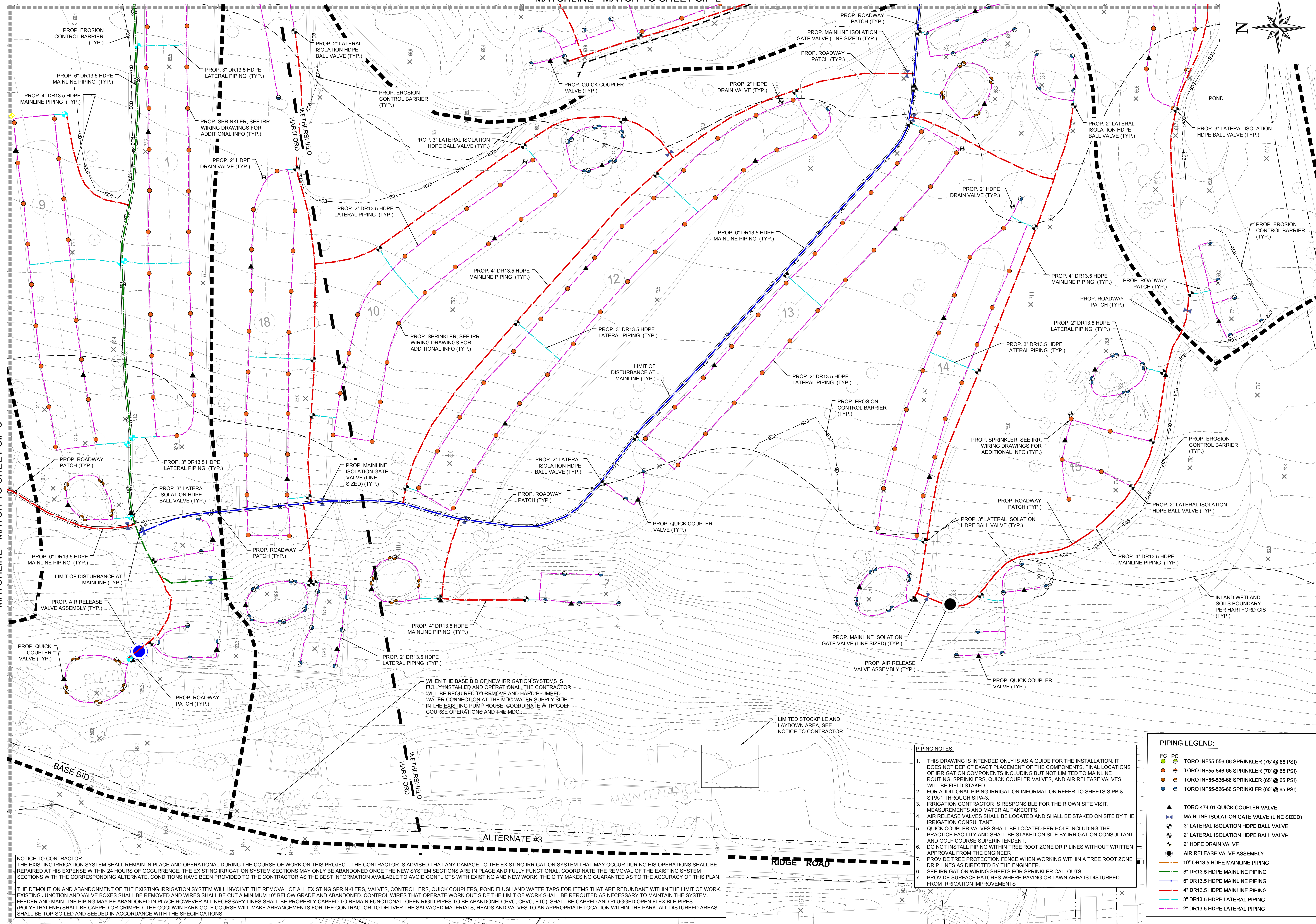
Project No.
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MATCHLINE - MATCH TO SHEET SIP-2



MATCHLINE - MATCH TO SHEET SIP-3



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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

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 SECTIONS MAY ONLY BE ABANDONED ONCE THE NEW SYSTEM SECTIONS ARE IN PLACE AND FULLY FUNCTIONAL. COORDINATE THE REMOVAL OF THE EXISTING SYSTEM SECTIONS WITH THE CORRESPONDING ALTERNATE. CONDITIONS HAVE 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.

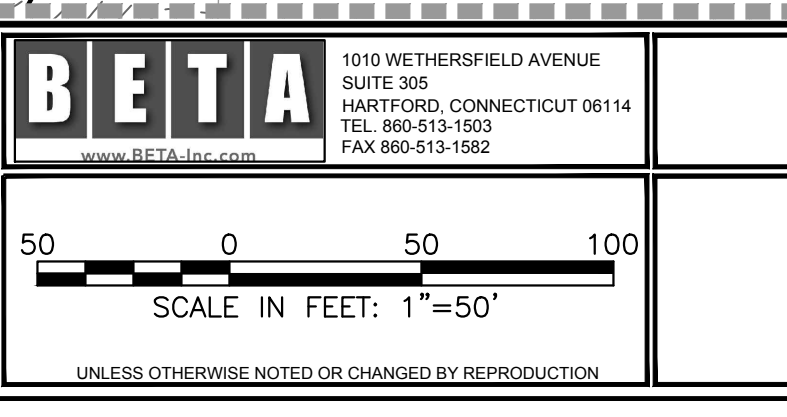
THE DEMOLITION AND ABANDONMENT OF THE EXISTING IRRIGATION SYSTEM WILL INVOLVE THE REMOVAL OF ALL EXISTING SPRINKLERS, VALVES, CONTROLLERS, POND FLUSH AND WATER TAPS FOR ITEMS THAT ARE REDUNDANT WITHIN THE LIMIT OF WORK. EXISTING JUNCTION AND VALVE BOXES SHALL BE REMOVED AND WIRES SHALL BE CUT A MINIMUM 10' BELOW GRADE AND ABANDONED. CONTROL WIRES THAT OPERATE WORK OUT SIDE THE LIMIT OF WORK SHALL BE REROUTED AS NECESSARY TO MAINTAIN THE SYSTEM. FEEDER AND MAIN LINE PIPING MAY BE ABANDONED IN PLACE HOWEVER ALL NECESSARY LINES SHALL BE PROPERLY CAPPED TO REMAIN FUNCTIONAL. OPEN RIGID PIPES TO BE ABANDONED (PVC, CPVC, ETC) SHALL BE CAPPED AND PLUGGED OPEN FLEXIBLE PIPES (POLYETHYLENE) SHALL BE CAPPED OR CRIMPED. 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 SEEDDED IN ACCORDANCE WITH THE SPECIFICATIONS.

Revisions	By	Date	Notice
			Manual revisions to this drawing are prohibited. The use of this drawing by any corporation, or by any person, for any reason, without written authorized consent of the City of Hartford is prohibited.

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 DPW- August 6, 2021

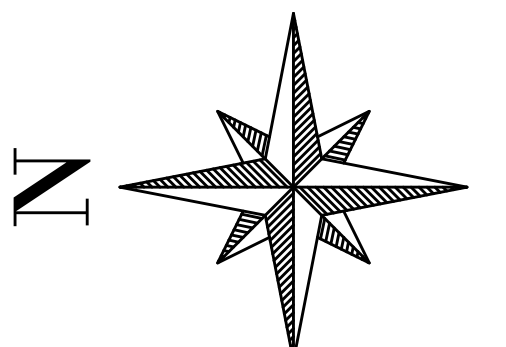


City of Hartford, Connecticut
 Department of Public Works

SITE IRRIGATION PIPING ENLARGEMENT PLAN (SHEET 4)

	Sheet Name SIP-4 Project No. 6982
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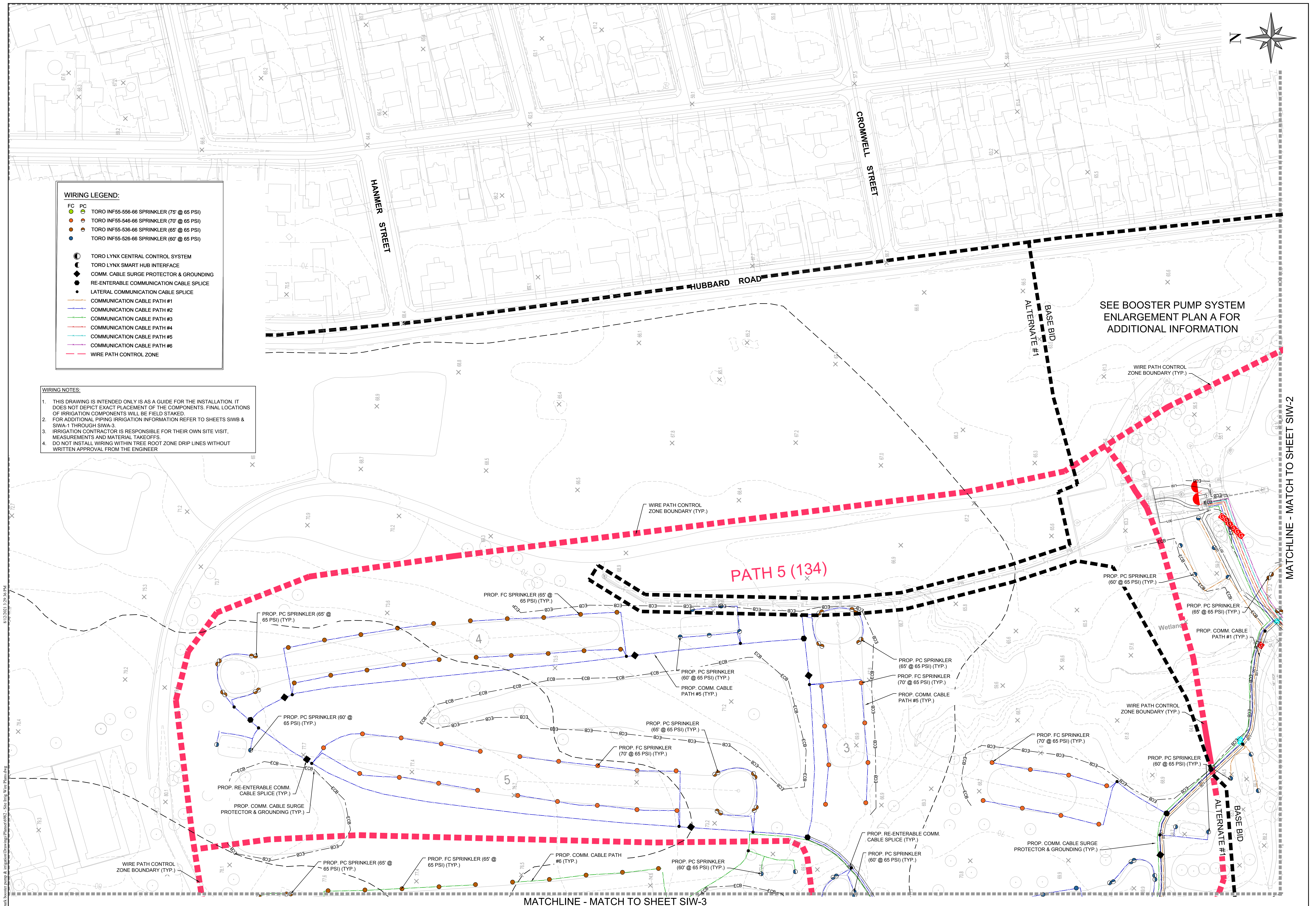
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WIRING LEGEND:

- FC TORO INF55-556-66 SPRINKLER (75' @ 65 PSI)
- PC TORO INF55-546-66 SPRINKLER (70' @ 65 PSI)
- PC TORO INF55-536-66 SPRINKLER (65' @ 65 PSI)
- PC TORO INF55-526-66 SPRINKLER (60' @ 65 PSI)
- TORO LYNX CENTRAL CONTROL SYSTEM
- TORO LYNX SMART HUB INTERFACE
- COMM. CABLE SURGE PROTECTOR & GROUNDING
- RE-ENTERABLE COMMUNICATION CABLE SPLICE
- LATERAL 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:**
- THIS DRAWING IS INTENDED ONLY AS A GUIDE FOR THE INSTALLATION. IT DOES NOT DEPICT EXACT PLACEMENT OF THE COMPONENTS. FINAL LOCATIONS OF IRRIGATION COMPONENTS WILL BE FIELD STAKED.
 - FOR ADDITIONAL PIPING IRRIGATION INFORMATION REFER TO SHEETS SIWB & SIWA-1 THROUGH SIWA-3.
 - IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THEIR OWN SITE VISIT, MEASUREMENTS AND MATERIAL TAKEOFFS.
 - DO NOT INSTALL WIRING WITHIN TREE ROOT ZONE DRIP LINES WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.



SEE BOOSTER PUMP SYSTEM ENLARGEMENT PLAN A FOR ADDITIONAL INFORMATION

PATH 5 (134)

MATCHLINE - MATCH TO SHEET SIW-3

Revisions	By	Date	Notice

Sign-Offs	By	Date
Drawn	NS/CC	11/25
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Recommended		
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GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
 HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 DPW- August 6, 2021

BETA
 100 WETHERFIELD AVENUE
 SUITE 200
 HARTFORD, CONNECTICUT 06114
 TEL: 860-513-1200
 FAX: 860-513-1992

SCALE IN FEET: 1"=50'

UNLESS OTHERWISE NOTED OR CHANGED BY REVISION.

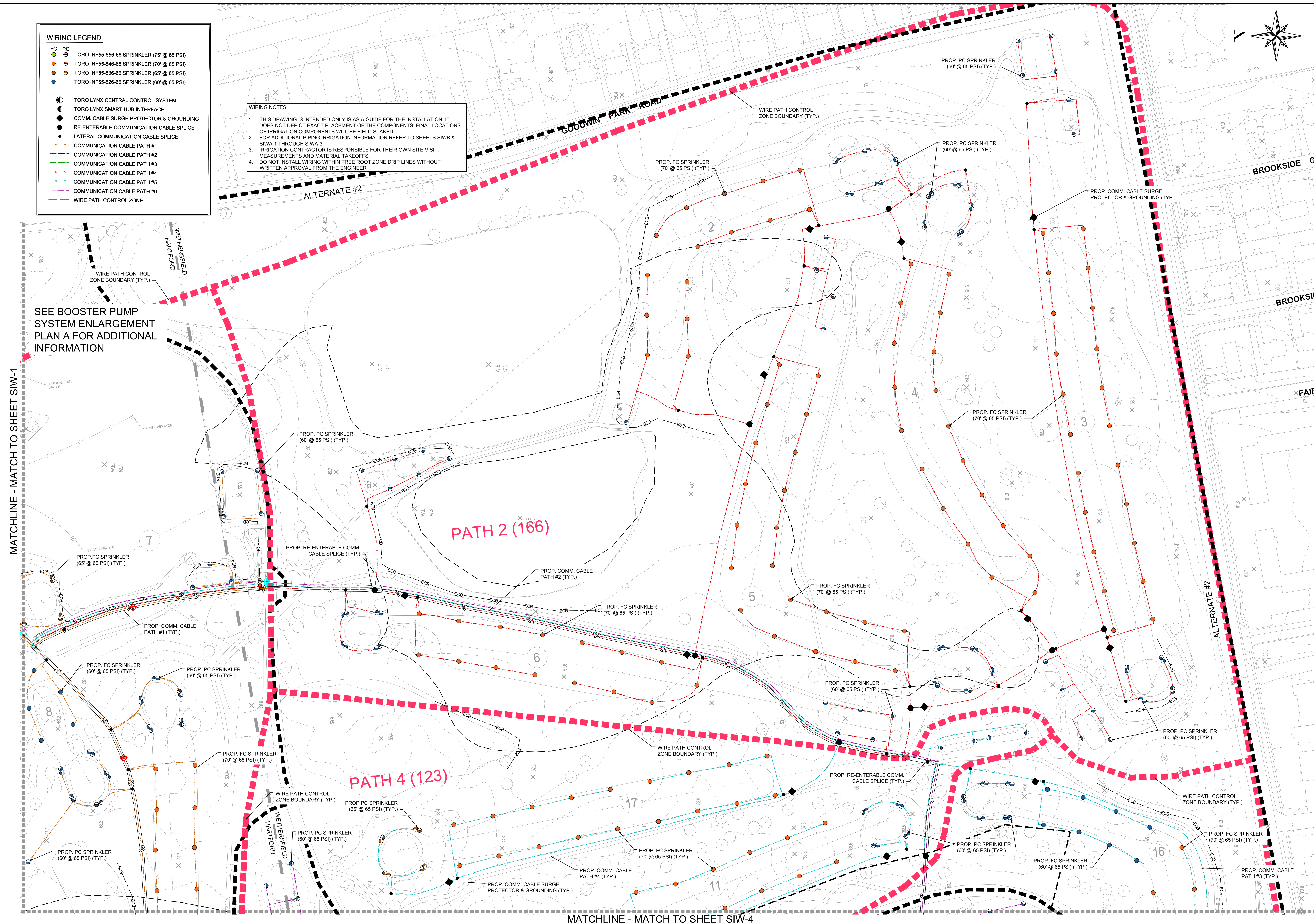
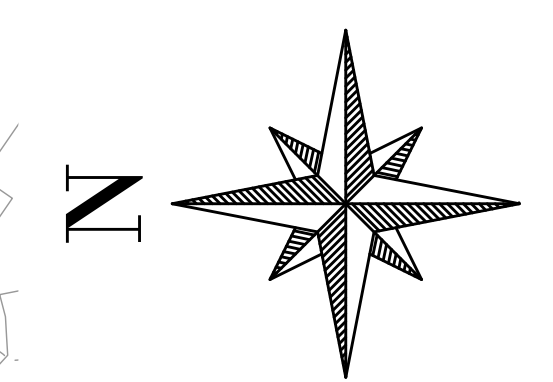
City of Hartford, Connecticut
 Department of Public Works

SITE IRRIGATION WIRING ENLARGEMENT PLAN (SHEET 1)

Sheet Name: **SIW-1**
 Project No.: 6982

- WIRING LEGEND:**
- FC TORO INF55-556-66 SPRINKLER (75' @ 65 PSI)
 - PC TORO INF55-546-66 SPRINKLER (70' @ 65 PSI)
 - PC TORO INF55-536-66 SPRINKLER (65' @ 65 PSI)
 - PC TORO INF55-526-66 SPRINKLER (60' @ 65 PSI)
 - TORO LYNX CENTRAL CONTROL SYSTEM
 - TORO LYNX SMART HUB INTERFACE
 - COMM. CABLE SURGE PROTECTOR & GROUNDING
 - RE-ENTERABLE COMMUNICATION CABLE SPLICE
 - LATERAL 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:**
1. THIS DRAWING IS INTENDED ONLY AS A GUIDE FOR THE INSTALLATION. IT DOES NOT DEPICT EXACT PLACEMENT OF THE COMPONENTS. FINAL LOCATIONS OF IRRIGATION COMPONENTS WILL BE FIELD STAKED.
 2. FOR ADDITIONAL PIPING/IRRIGATION INFORMATION REFER TO SHEETS SIWB & SIWA-1 THROUGH SIWA-3.
 3. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THEIR OWN SITE VISIT, MEASUREMENTS AND MATERIAL TAKEOFFS.
 4. DO NOT INSTALL WIRING WITHIN TREE ROOT ZONE DRIP LINES WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.



SEE BOOSTER PUMP SYSTEM ENLARGEMENT PLAN A FOR ADDITIONAL INFORMATION

MATCHLINE - MATCH TO SHEET SIW-1

MATCHLINE - MATCH TO SHEET SIW-4

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				Checked	JB	11/25
				Recommended		
				Approved		
				Recorded		

GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
 HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 DPW- August 6, 2021

BETA 1010 WETHERSFIELD AVENUE
 SUITE 200
 HARTFORD, CONNECTICUT 06114
 TEL: 860-510-1200
 FAX: 860-510-1992

SCALE IN FEET: 1"=50'

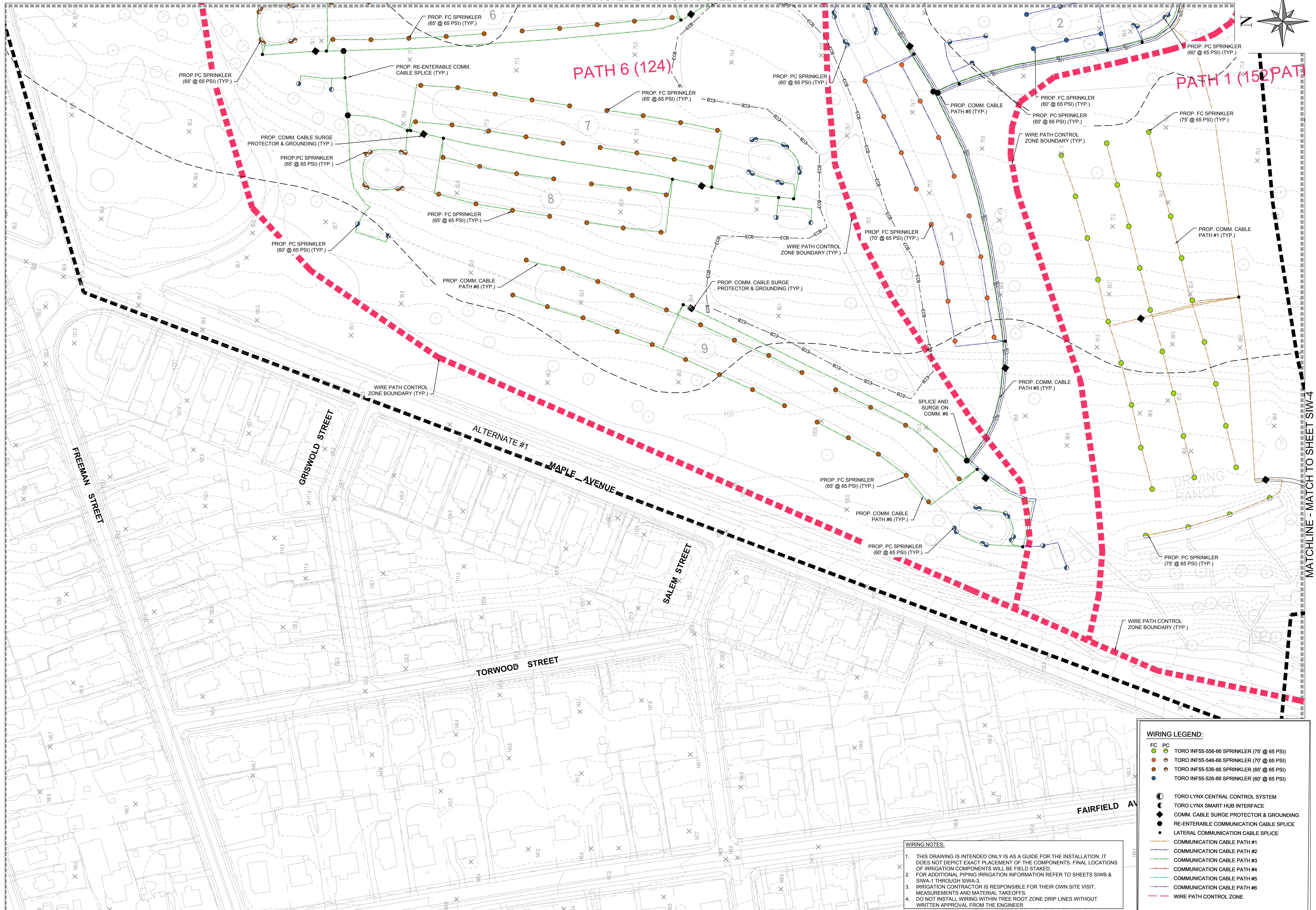
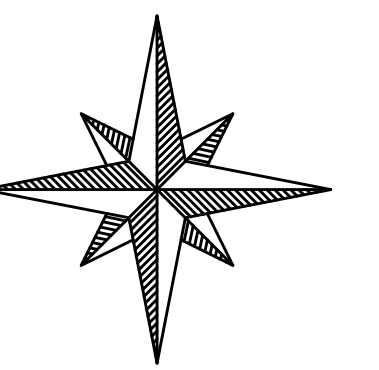
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City of Hartford, Connecticut
 Department of Public Works

SITE IRRIGATION WIRING ENLARGEMENT PLAN (SHEET 2)

Sheet Name: **SIW-2**
 Project No.: 6982

MATCHLINE - MATCH TO SHEET SIW-1



PATH 6 (124')

PATH 1 (152')

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
⊙		TORO LYNX SMART HUB INTERFACE
◆		COMM. CABLE SURGE PROTECTOR & GROUNDING
◆		RE-ENTERABLE COMMUNICATION CABLE SPLICE
●		LATERAL 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

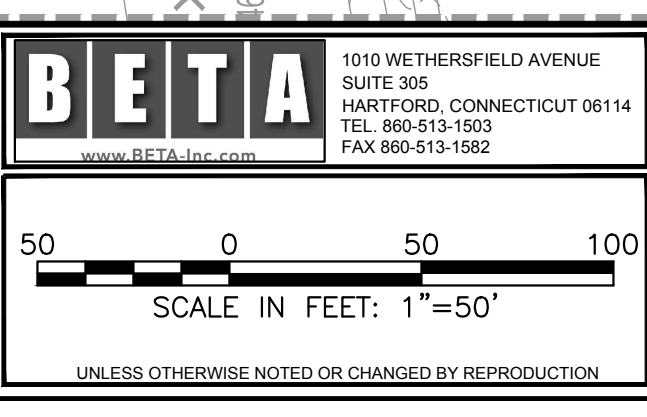
WIRING NOTES:

1. THIS DRAWING IS INTENDED ONLY AS A GUIDE FOR THE INSTALLATION. IT DOES NOT DEPICT EXACT PLACEMENT OF THE COMPONENTS. FINAL LOCATIONS OF IRRIGATION COMPONENTS WILL BE FIELD STAKED.
2. FOR ADDITIONAL PIPING IRRIGATION INFORMATION REFER TO SHEETS SIWB & SIWA-1 THROUGH SIWA-3.
3. IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THEIR OWN SITE VISIT, MEASUREMENTS AND MATERIAL TAKEOFFS.
4. DO NOT INSTALL WIRING WITHIN TREE ROOT ZONE DRIP LINES WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.

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				Checked	JB	11/25
				Recommended		
				Approved		
				Recorded		

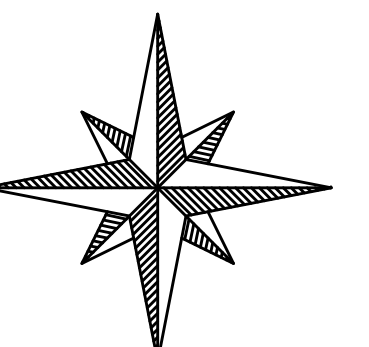
GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
 HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 DPW- August 6, 2021



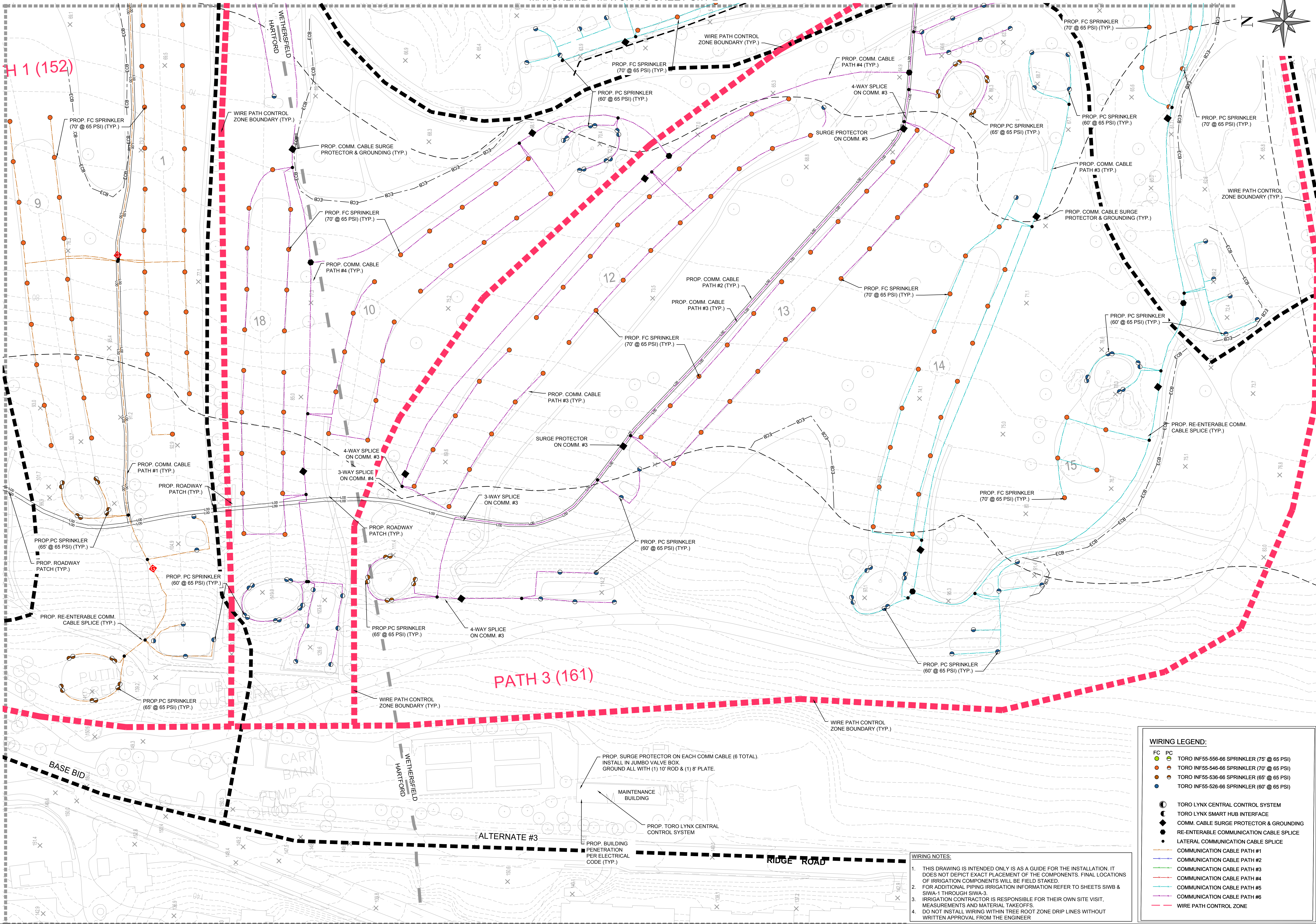
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MATCHLINE - MATCH TO SHEET SIW-2



H 1 (152)

MATCHLINE - MATCH TO SHEET SIW-3



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
- TORO LYNX SMART HUB INTERFACE
- ◆ COMM. CABLE SURGE PROTECTOR & GROUNDING
- ◆ RE-ENTERABLE COMMUNICATION CABLE SPLICE
- LATERAL 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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- DO NOT INSTALL WIRING WITHIN TREE ROOT ZONE DRIP LINES WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.

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				Checked	JB	11/25
				Recommended		
				Approved		
				Recorded		

GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
 HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 DPW- August 6, 2021

BETA
 1010 WETHERSFIELD AVENUE
 SUITE 600
 HARTFORD, CONNECTICUT 06114
 TEL: 860-513-1200
 FAX: 860-513-1922

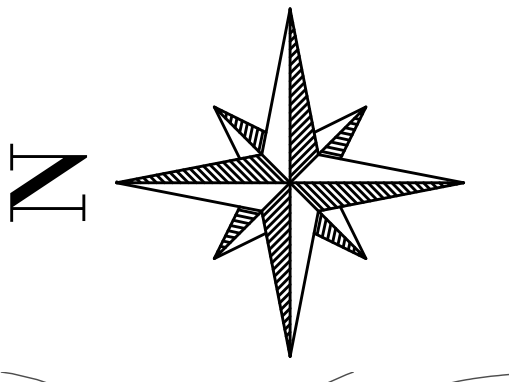
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UNLESS OTHERWISE NOTED OR CHANGED BY REVISION

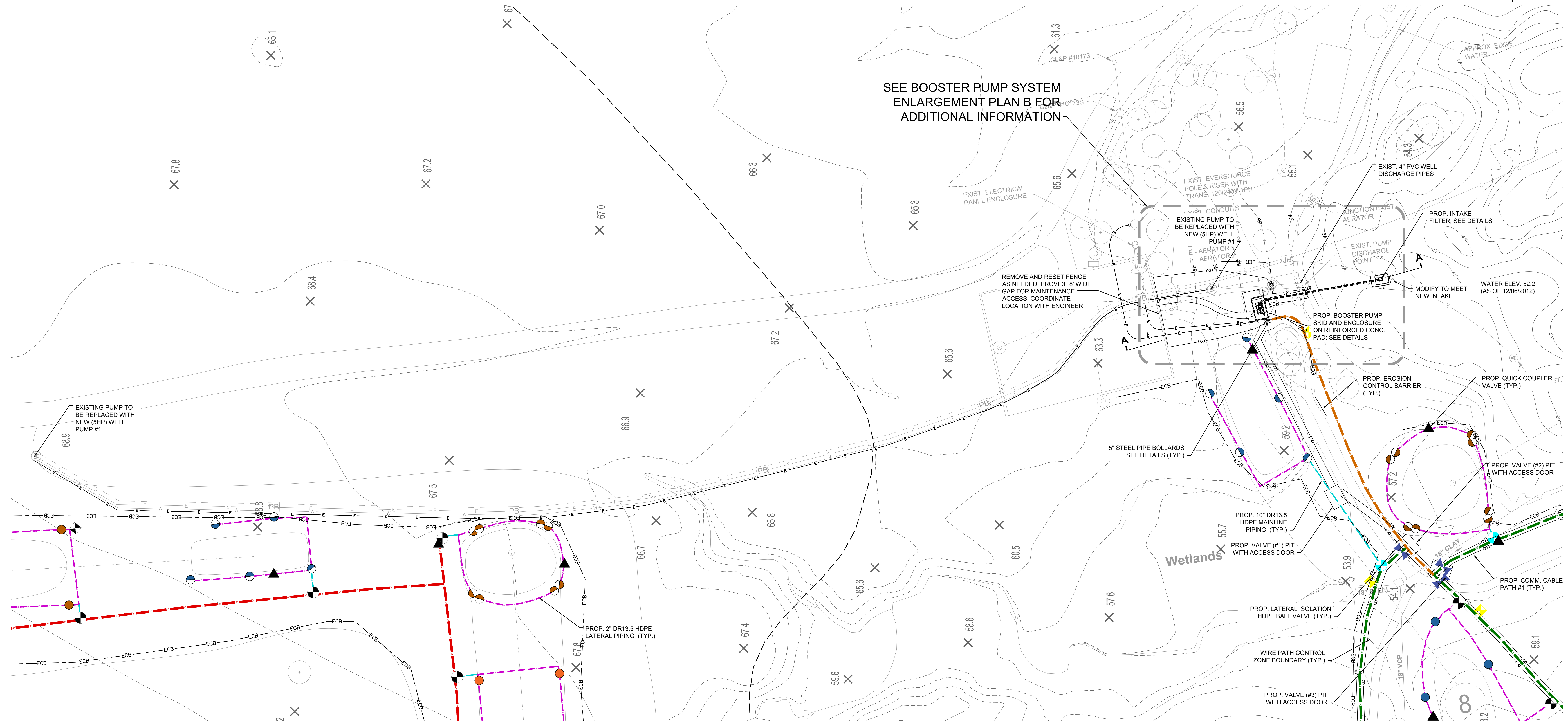
City of Hartford, Connecticut
 Department of Public Works

SITE IRRIGATION WIRING ENLARGEMENT PLAN (SHEET 4)

Sheet Name: **SIW-4**
 Project No.: 6982



SEE BOOSTER PUMP SYSTEM
ENLARGEMENT PLAN B FOR
ADDITIONAL INFORMATION



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

PIPING NOTES:

1. THIS DRAWING IS INTENDED ONLY 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.

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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 DPW- August 6, 2021

BETA 1010 WETHERFIELD AVENUE
SUITE 200
HARTFORD, CONNECTICUT 06114
TEL: 860-513-1200
FAX: 860-513-1592

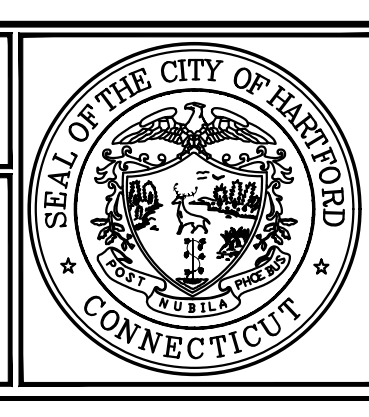
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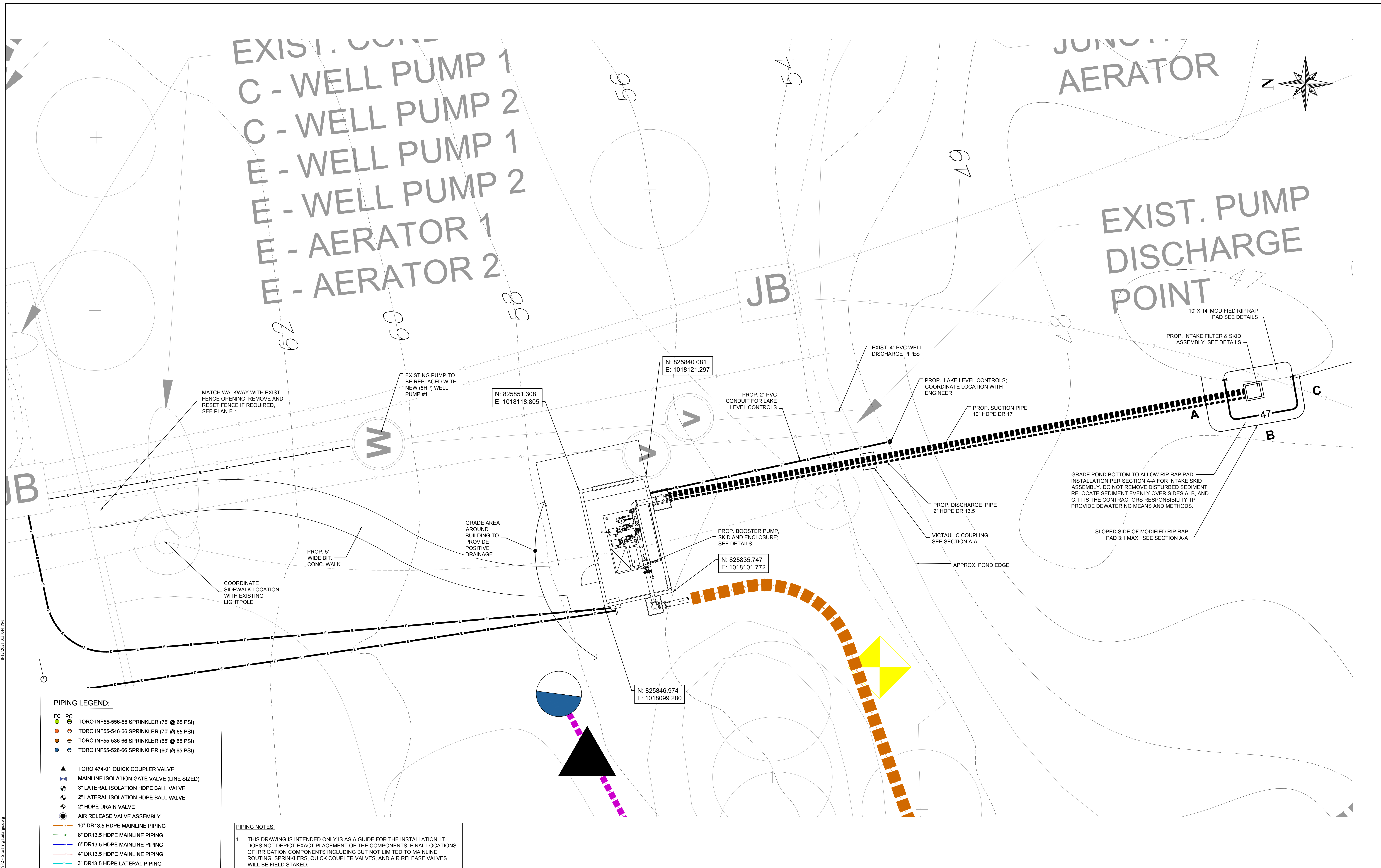
**City of Hartford, Connecticut
Department of Public Works**

SITE PUMP STATION PLAN A

Sheet Name
SIE-1

Project No.
6982





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

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 - AIR RELEASE VALVES SHALL BE LOCATED AND SHALL BE STAKED ON SITE BY THE IRRIGATION CONSULTANT.
 - 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.
 - DO NOT INSTALL WIRING WITHIN TREE ROOT ZONE DRIP LINES WITHOUT WRITTEN APPROVAL FROM THE ENGINEER.
 - PROVIDE TREE PROTECTION FENCE WHEN WORKING WITHIN A TREE ROOT ZONE DRIP LINES AS DIRECTED BY THE ENGINEER.
 - SEE IRRIGATION WIRING SHEETS FOR SPRINKLER CALLOUTS
 - PROVIDE SURFACE PATCHES WHERE PAVING OR LAWN AREA IS DISTURBED FROM IRRIGATION IMPROVEMENTS.

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

Revisions	By	Date	Notice

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

BETA
 1010 WETHERSFIELD AVENUE
 SUITE 205
 HARTFORD, CONNECTICUT 06114
 TEL: 860-313-1320
 FAX: 860-313-1322

SCALE IN FEET: 1" = 5'

UNLESS OTHERWISE NOTED OR CHANGED BY REVISION.

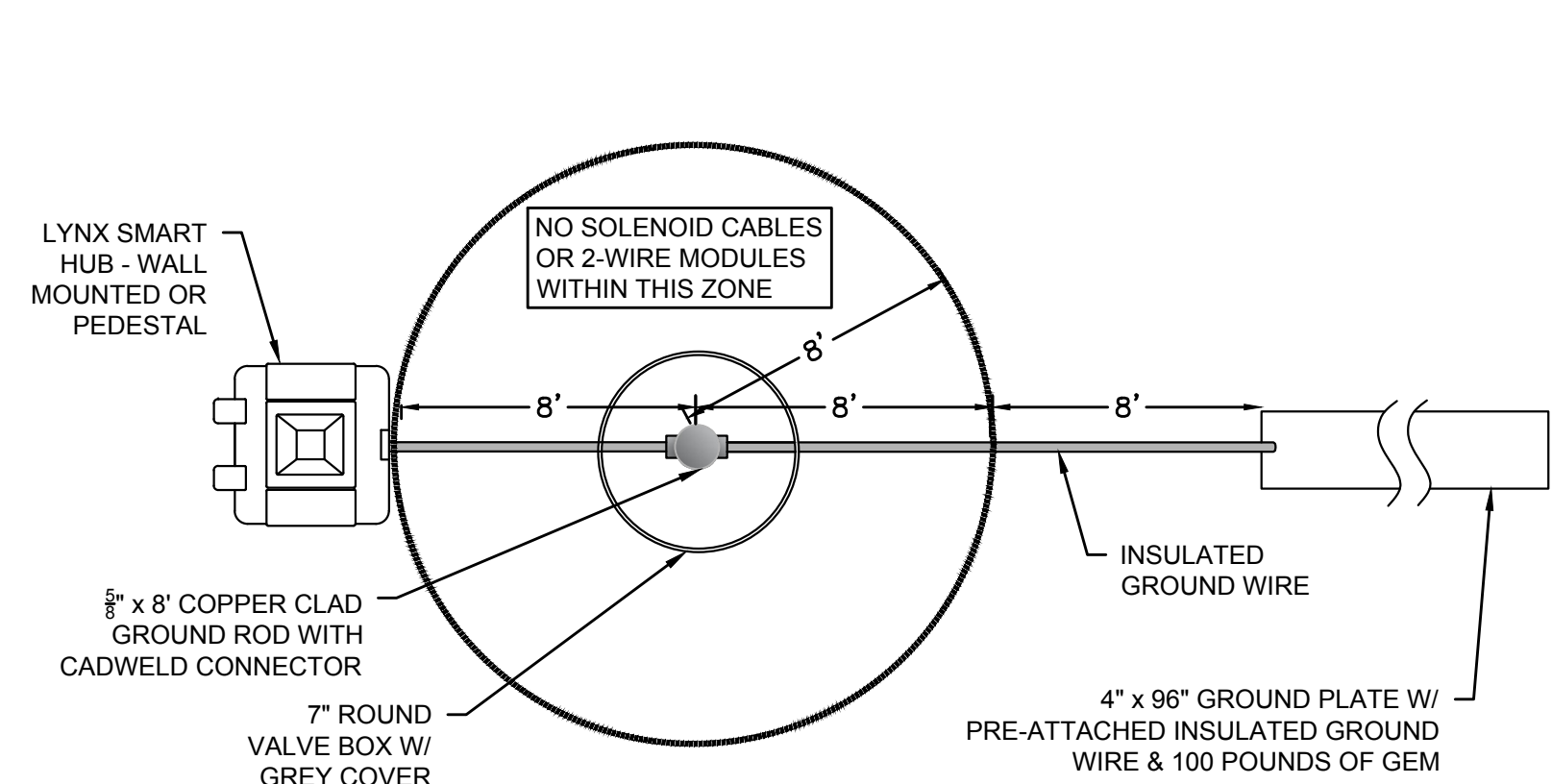
City of Hartford, Connecticut
 Department of Public Works

SITE PUMP STATION PLAN B

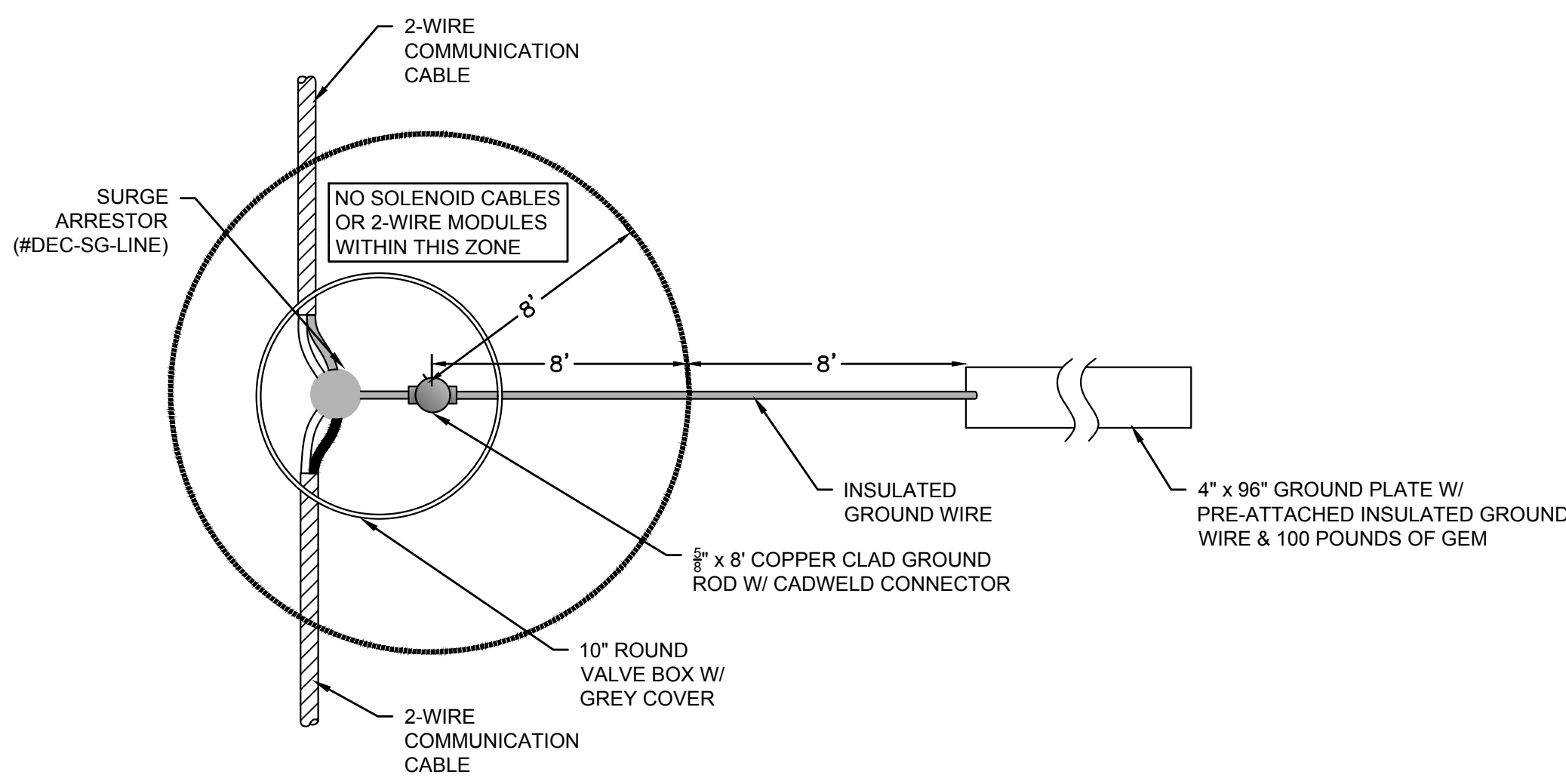
BETA Proj. No. 6982 DPW- August 6, 2021

Sheet Name: **SI-E-2**
 Project No.: 6982

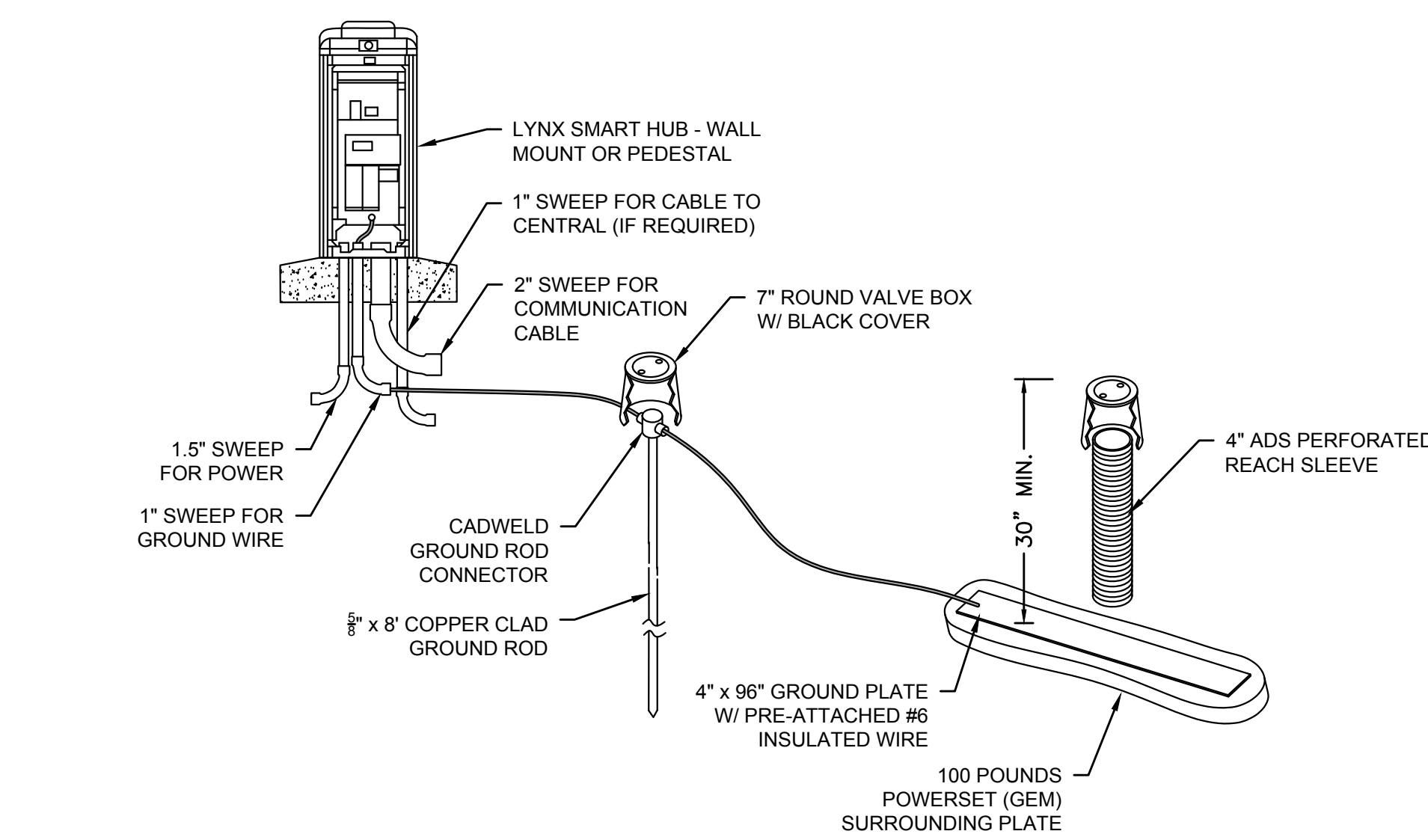
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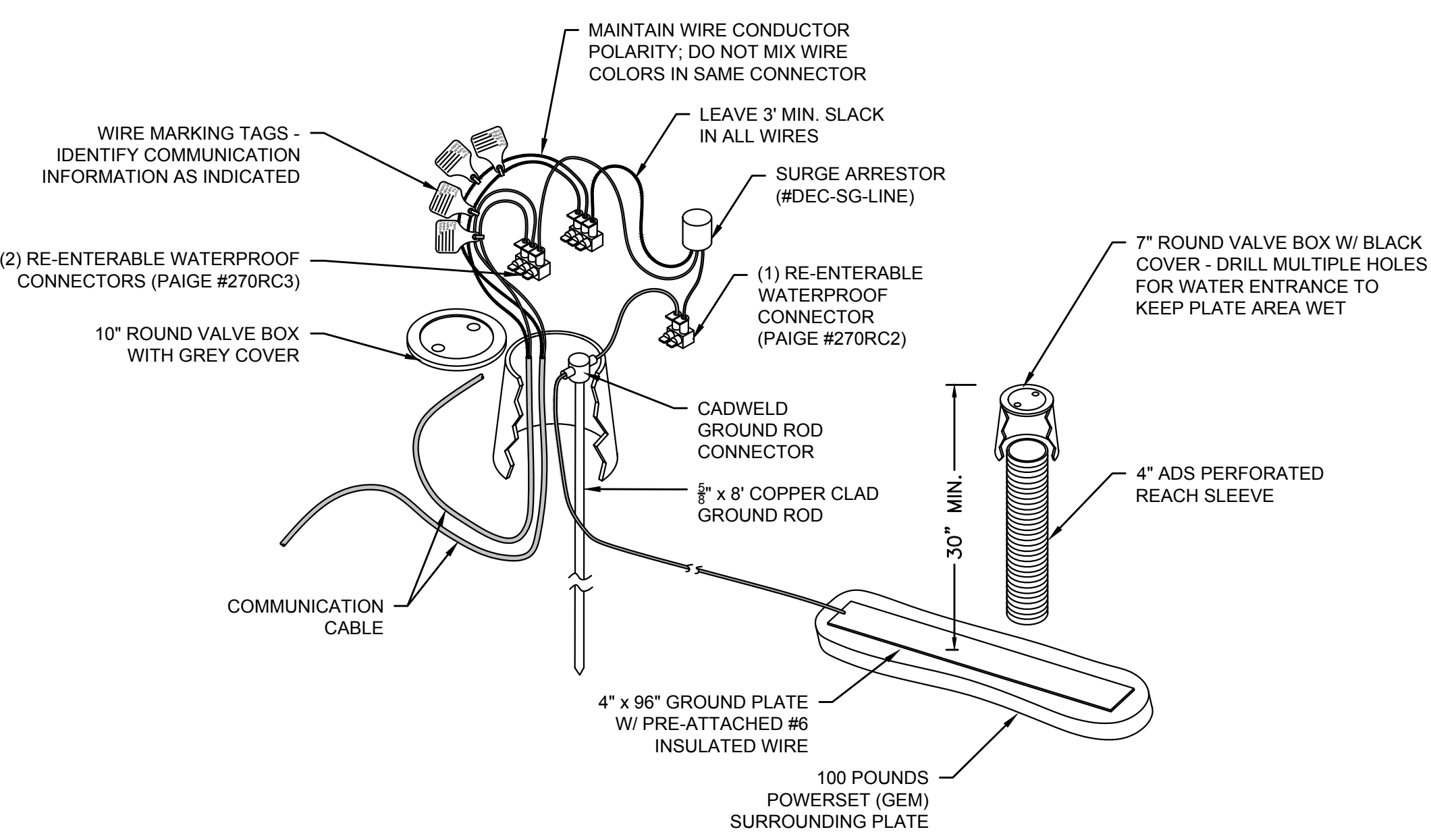
COMMUNICATION SURGE PROTECTION & GROUNDING
NOT TO SCALE



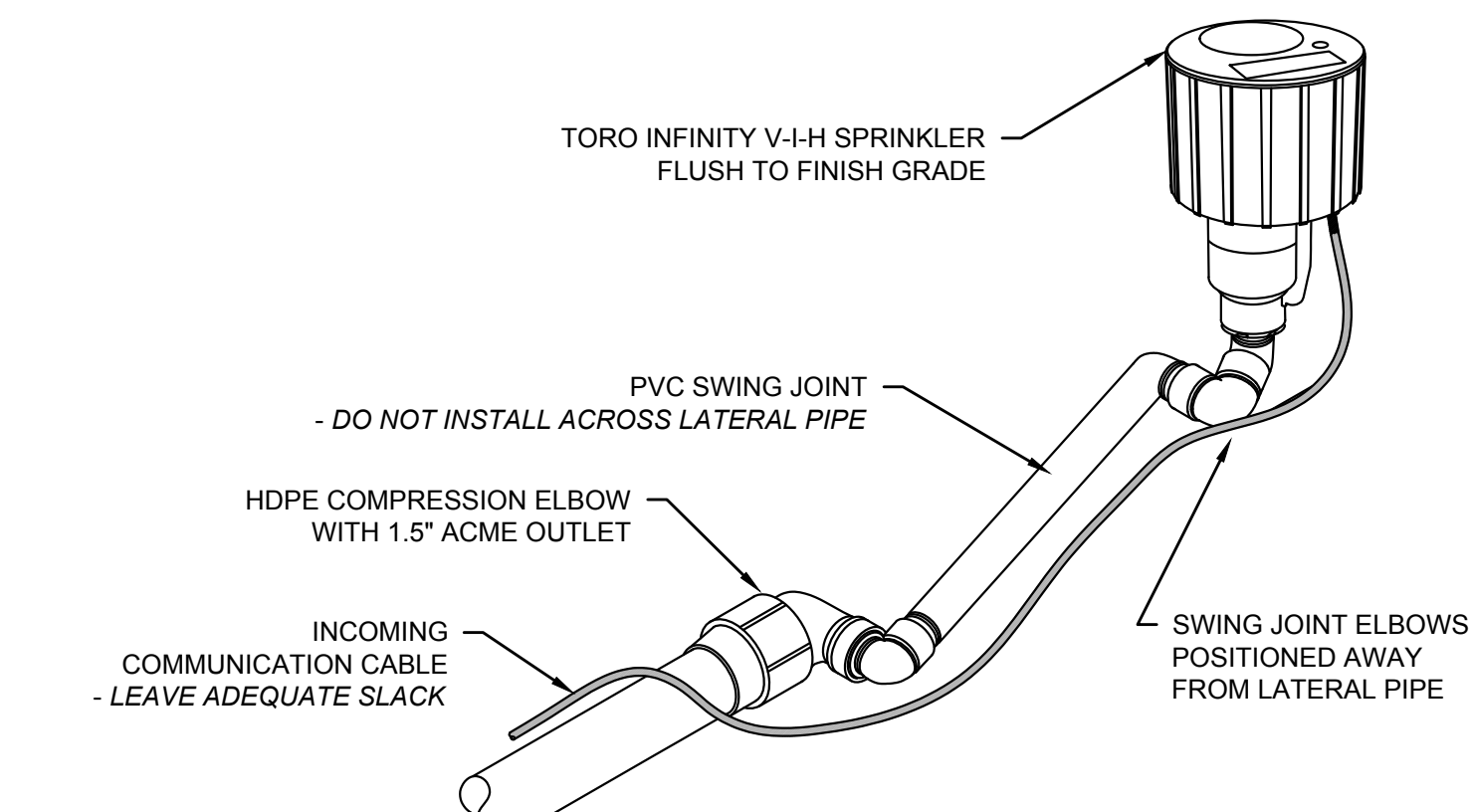
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NOT TO SCALE



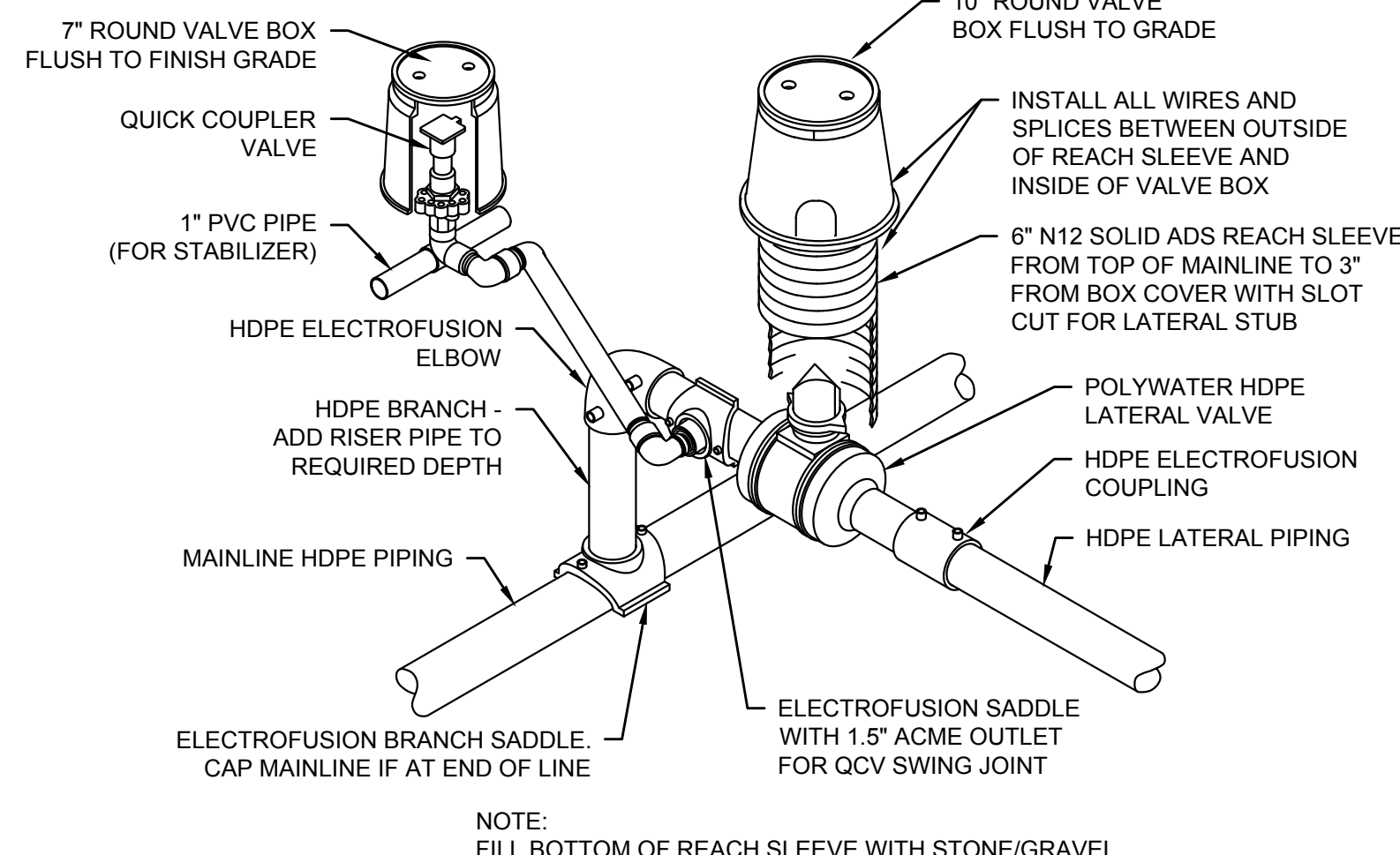
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NOT TO SCALE



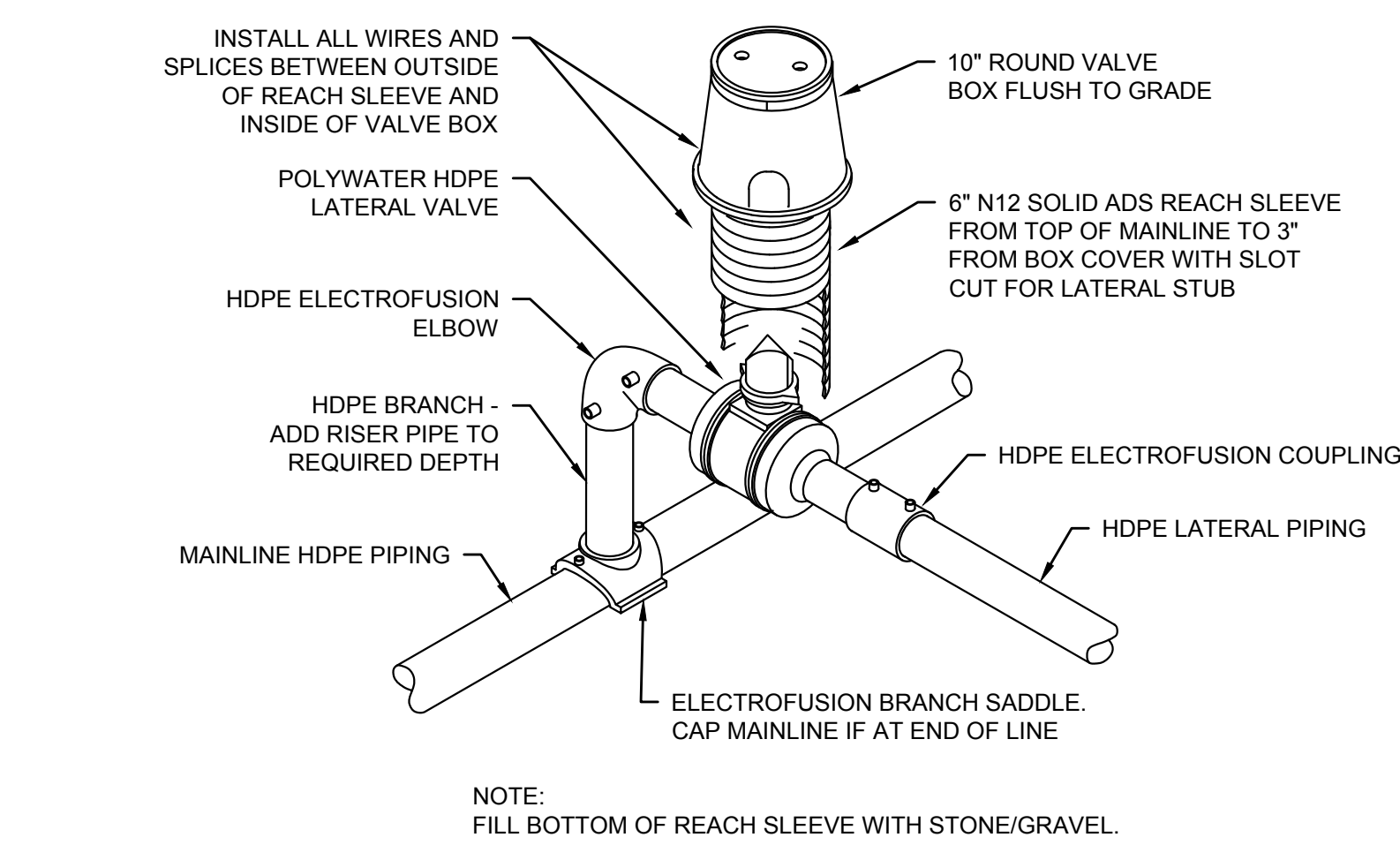
COMMUNICATION SURGE PROTECTION & GROUNDING
NOT TO SCALE



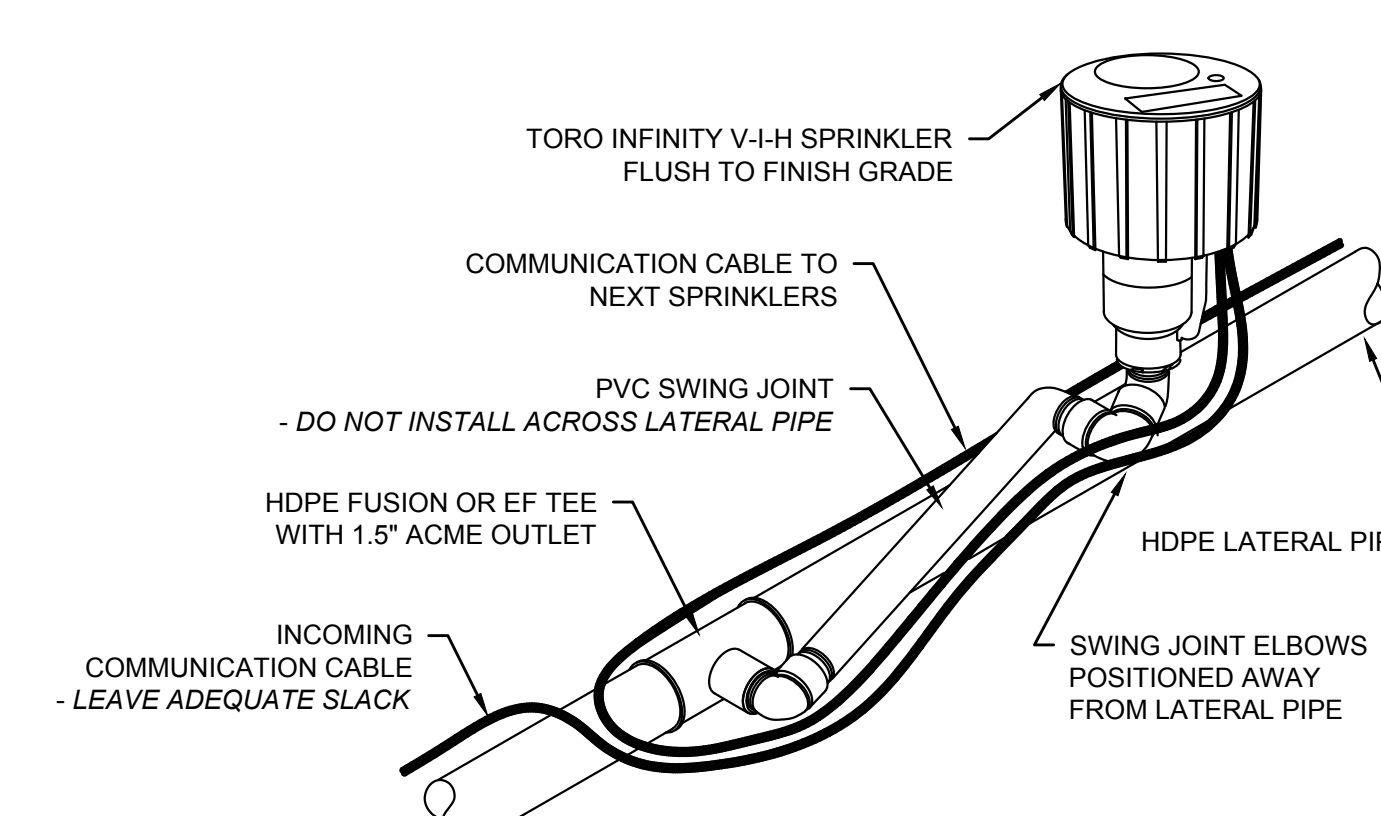
SPRINKLER INSTALLATION
NOT TO SCALE



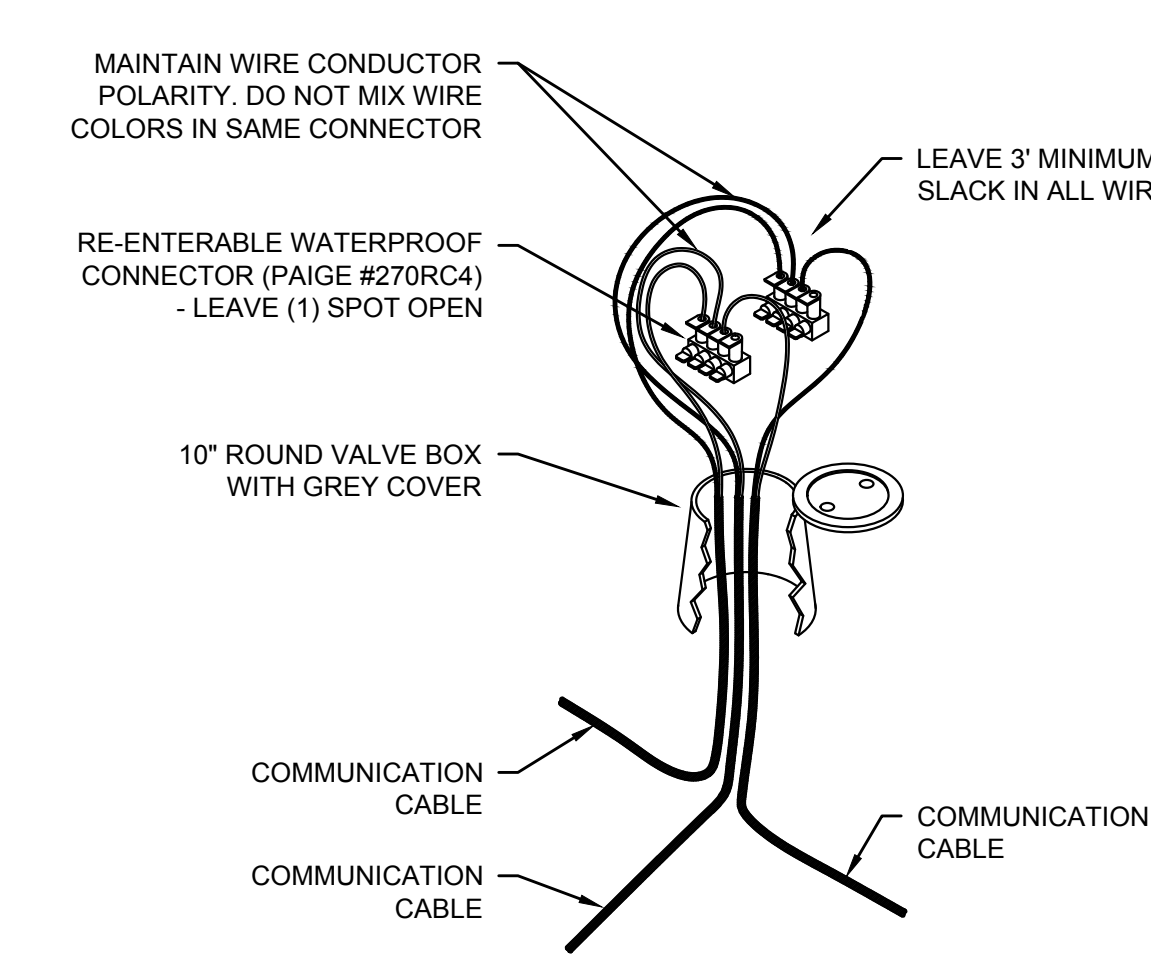
LATERAL ISOLATION VALVE
NOT TO SCALE



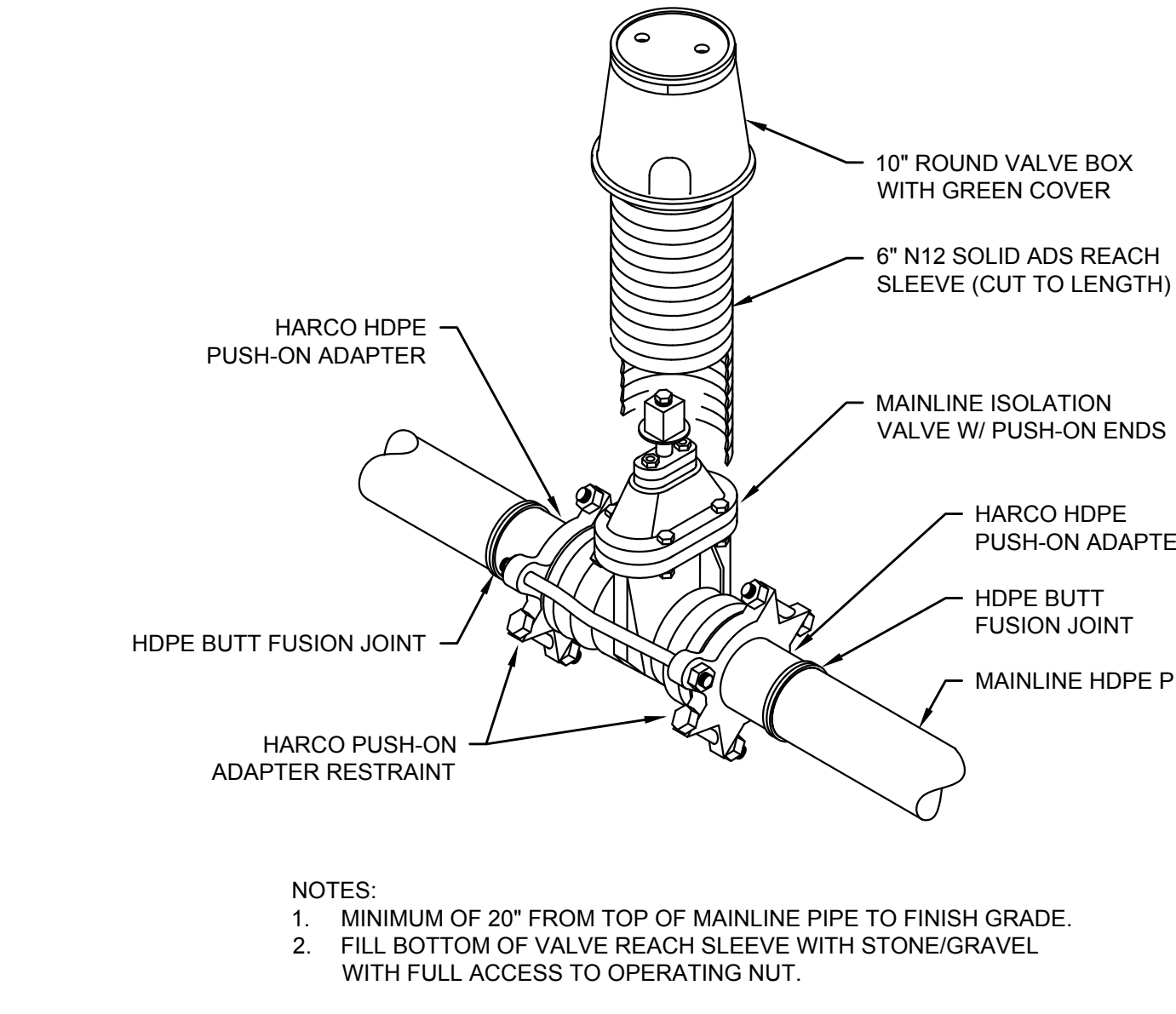
LATERAL ISOLATION VALVE
NOT TO SCALE



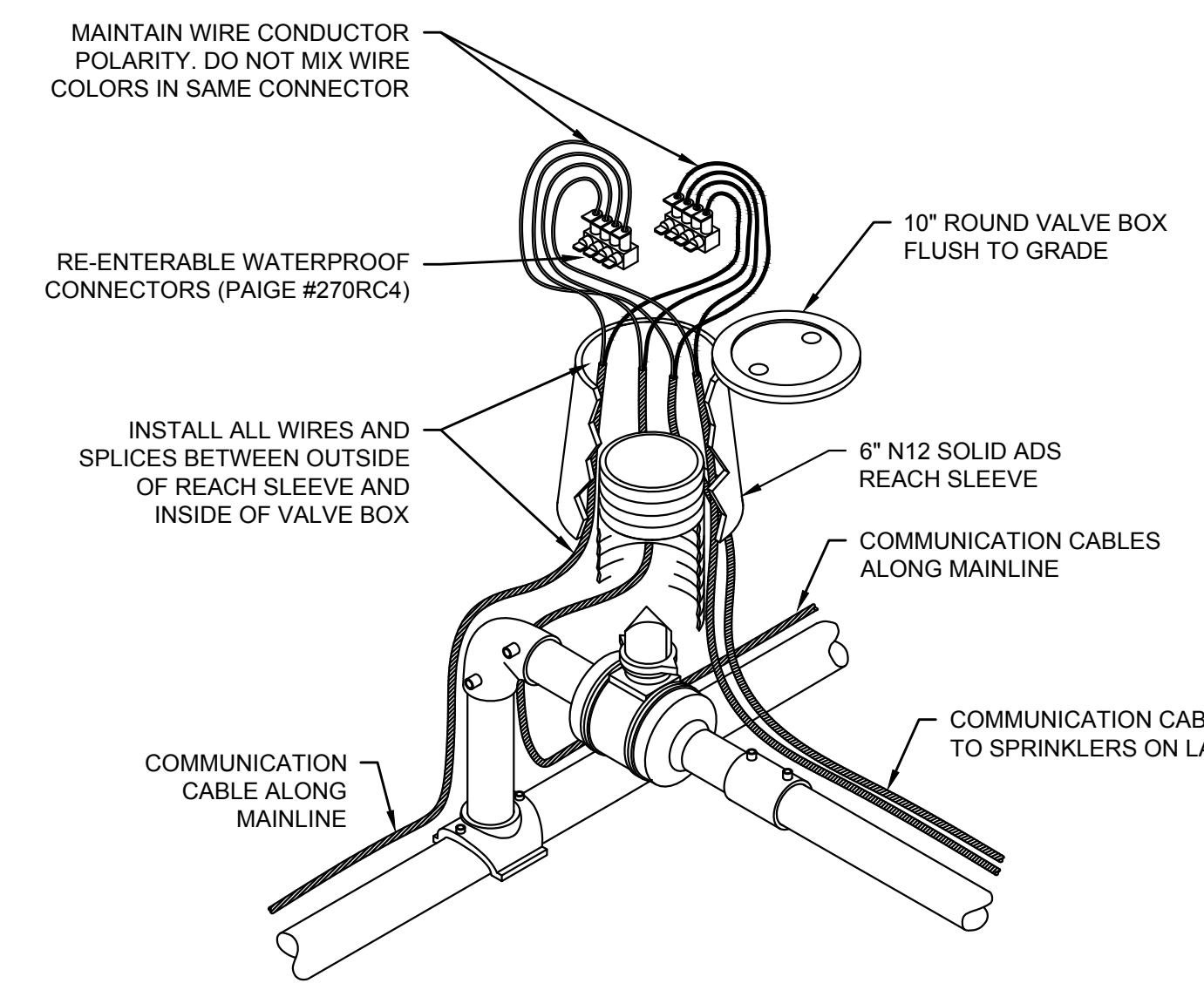
SPRINKLER INSTALLATION
NOT TO SCALE



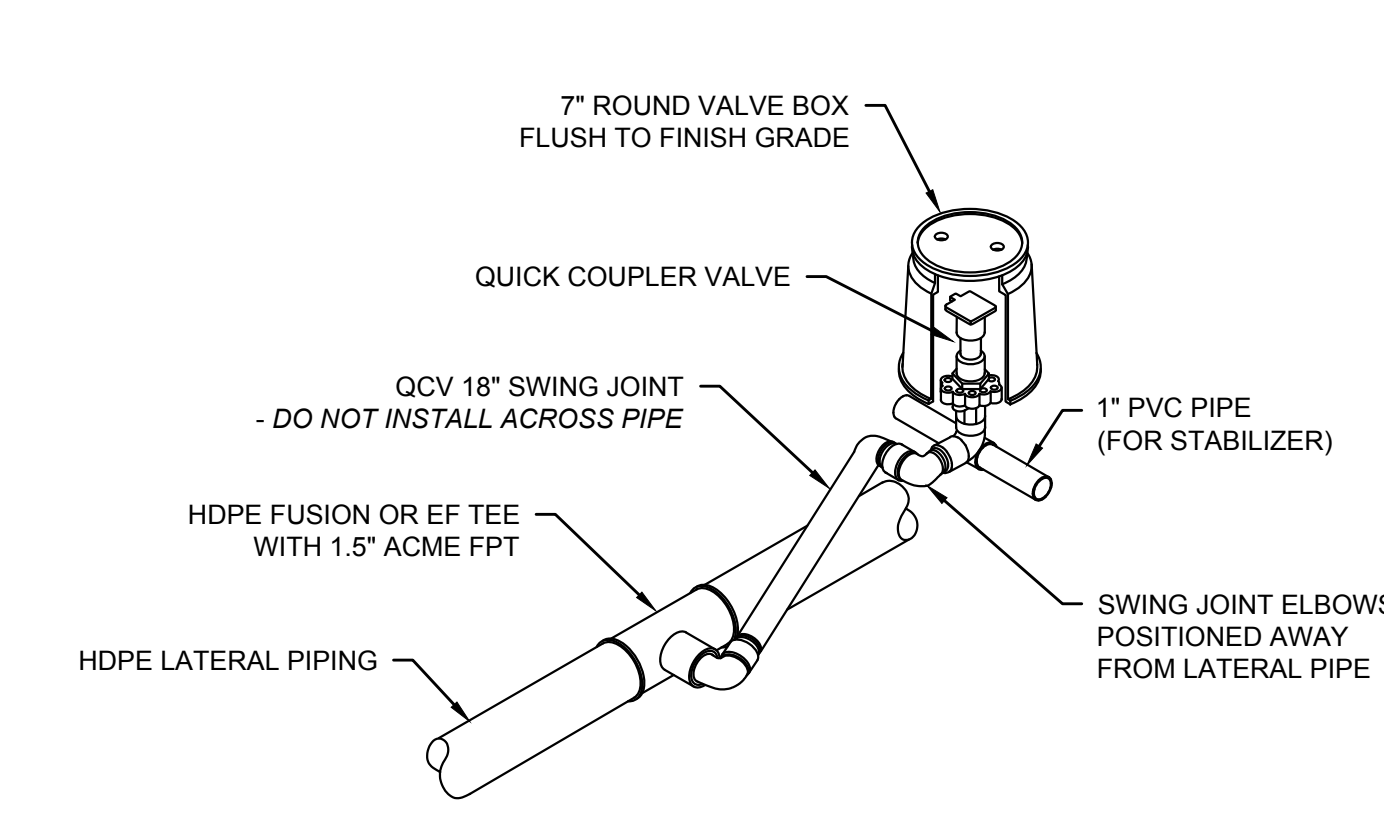
3-WAY COMMUNICATION SPLICE
NOT TO SCALE



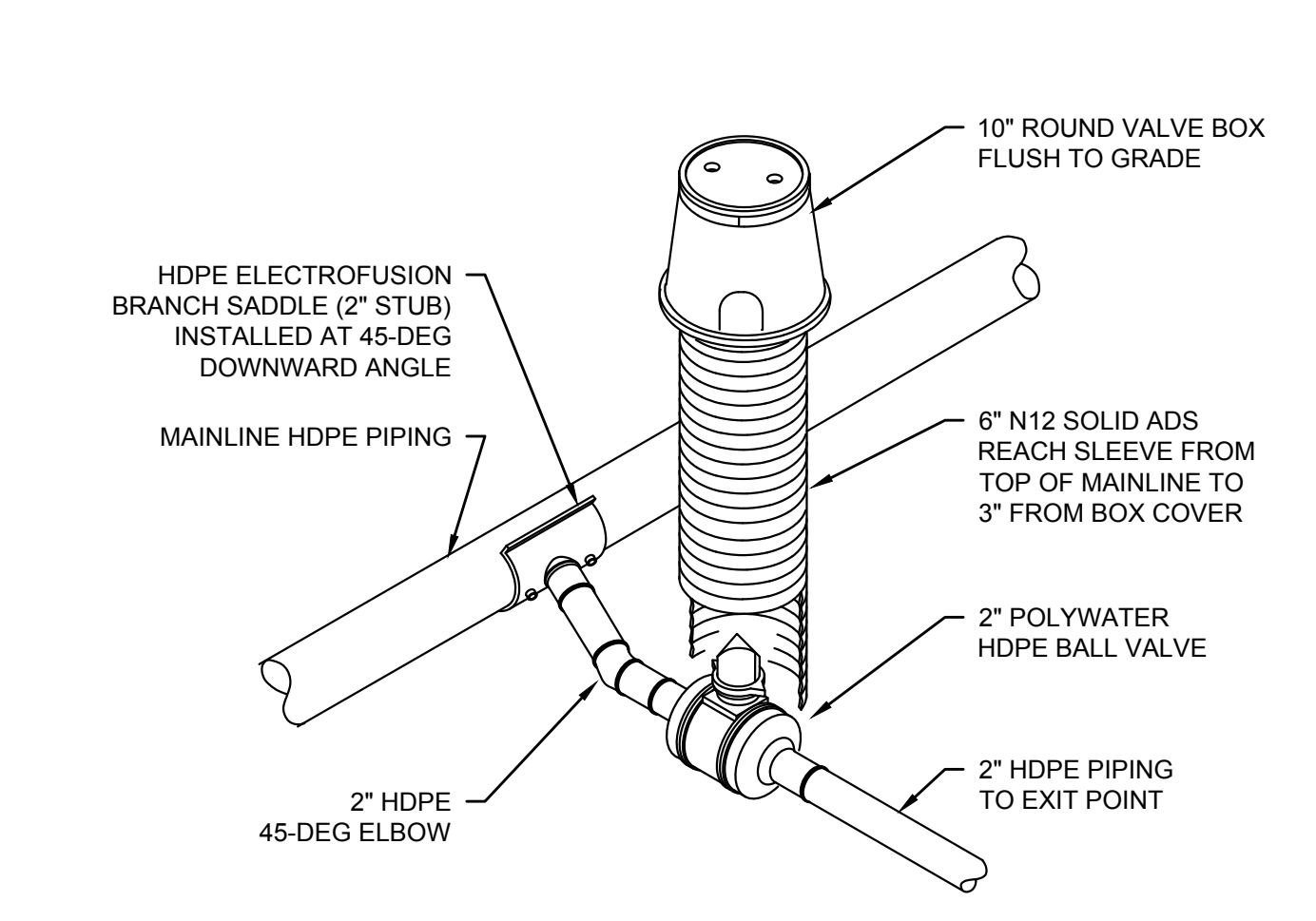
MAINLINE ISOLATION VALVE
NOT TO SCALE



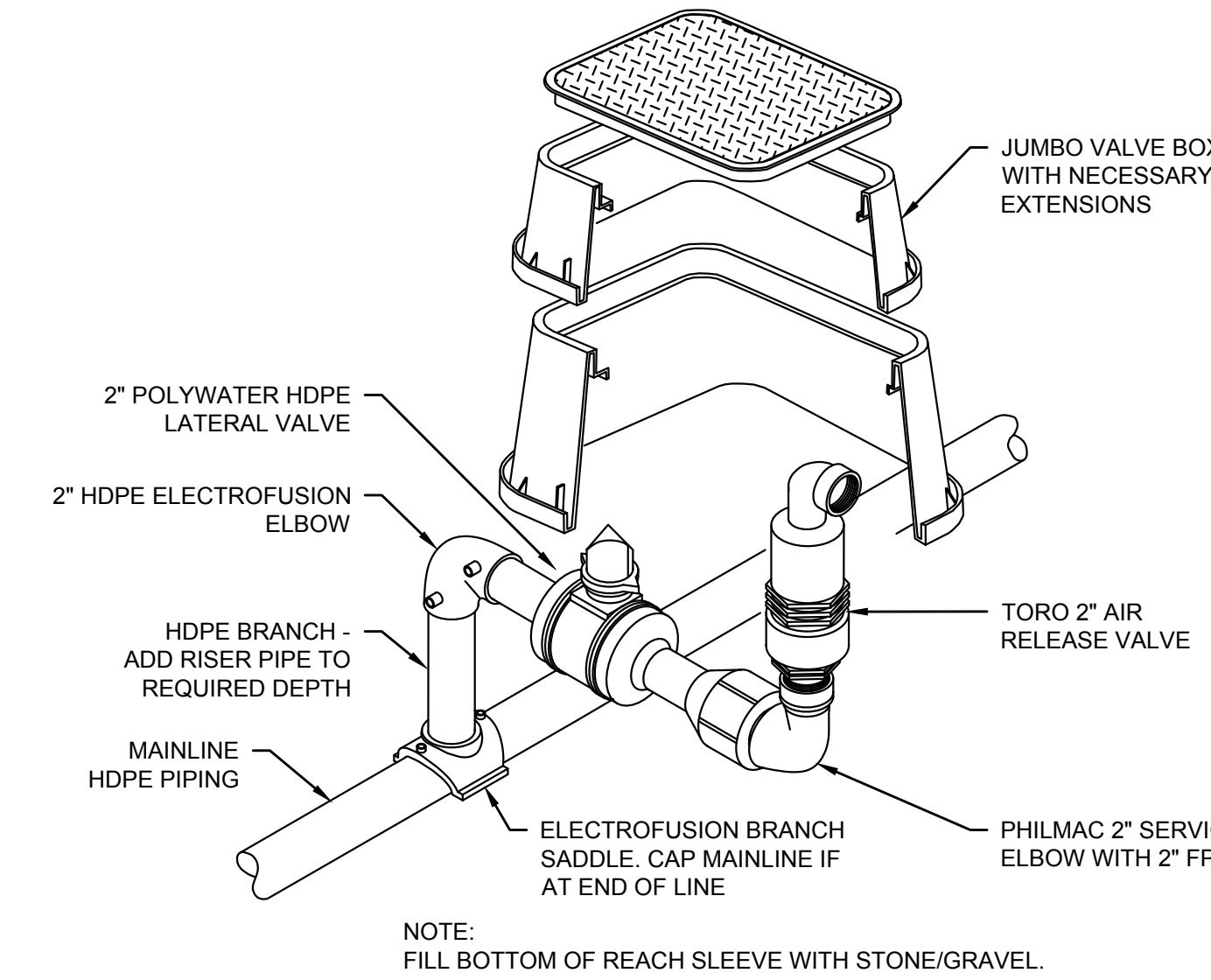
COMMUNICATION CABLE SPLICE - AT LATERAL VALVE
NOT TO SCALE



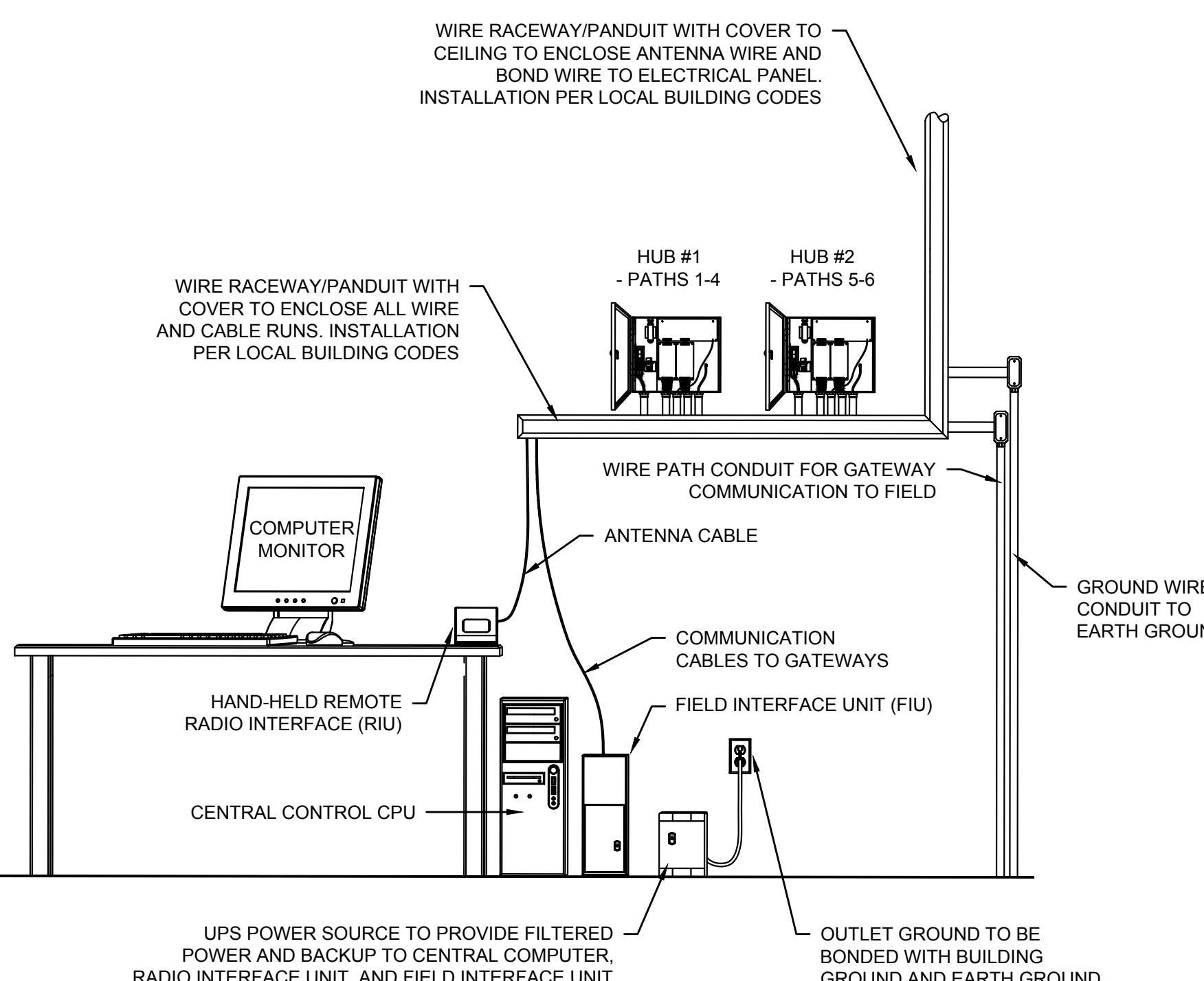
QUICK COUPLER VALVE ASSEMBLY
NOT TO SCALE



DRAIN VALVE ASSEMBLY
NOT TO SCALE



AIR RELEASE VALVE ASSEMBLY
NOT TO SCALE



CENTRAL CONTROL SYSTEM (TYP.)
NOT TO SCALE

8/12/2021 1:31:15 PM E:\69001\6982\hartford\goodwin park booster pump & irrigation drawings\plans\6982 - Irrigation Details.dwg

Revisions	By	Date	Notice

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 1010 WETHERFIELD AVENUE
HARTFORD, CONNECTICUT 06114
TEL: 860-234-1922 FAX: 860-234-1922

SCALE AS NOTED

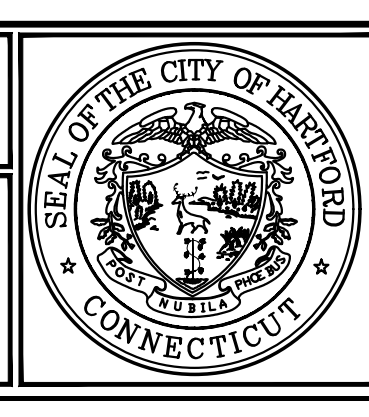
BETA Proj. No. 6982 DPW- August 6, 2021

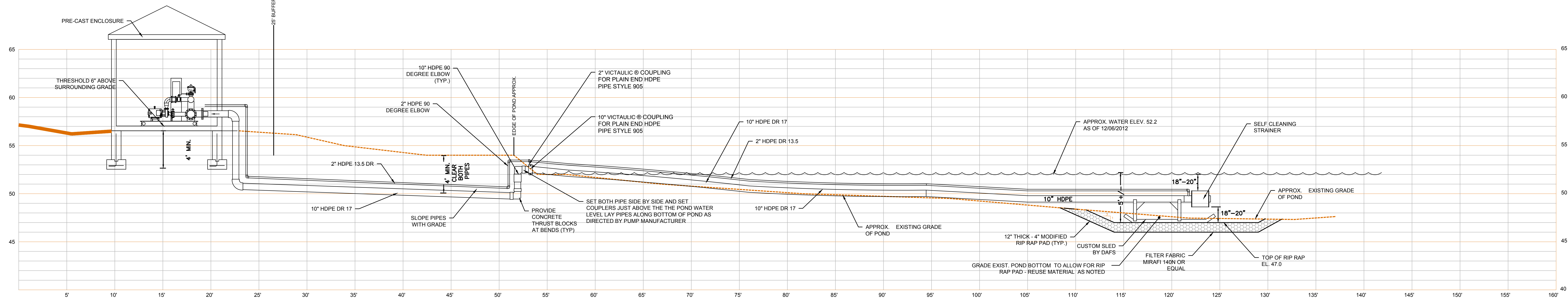
City of Hartford, Connecticut
Department of Public Works

IRRIGATION DETAILS

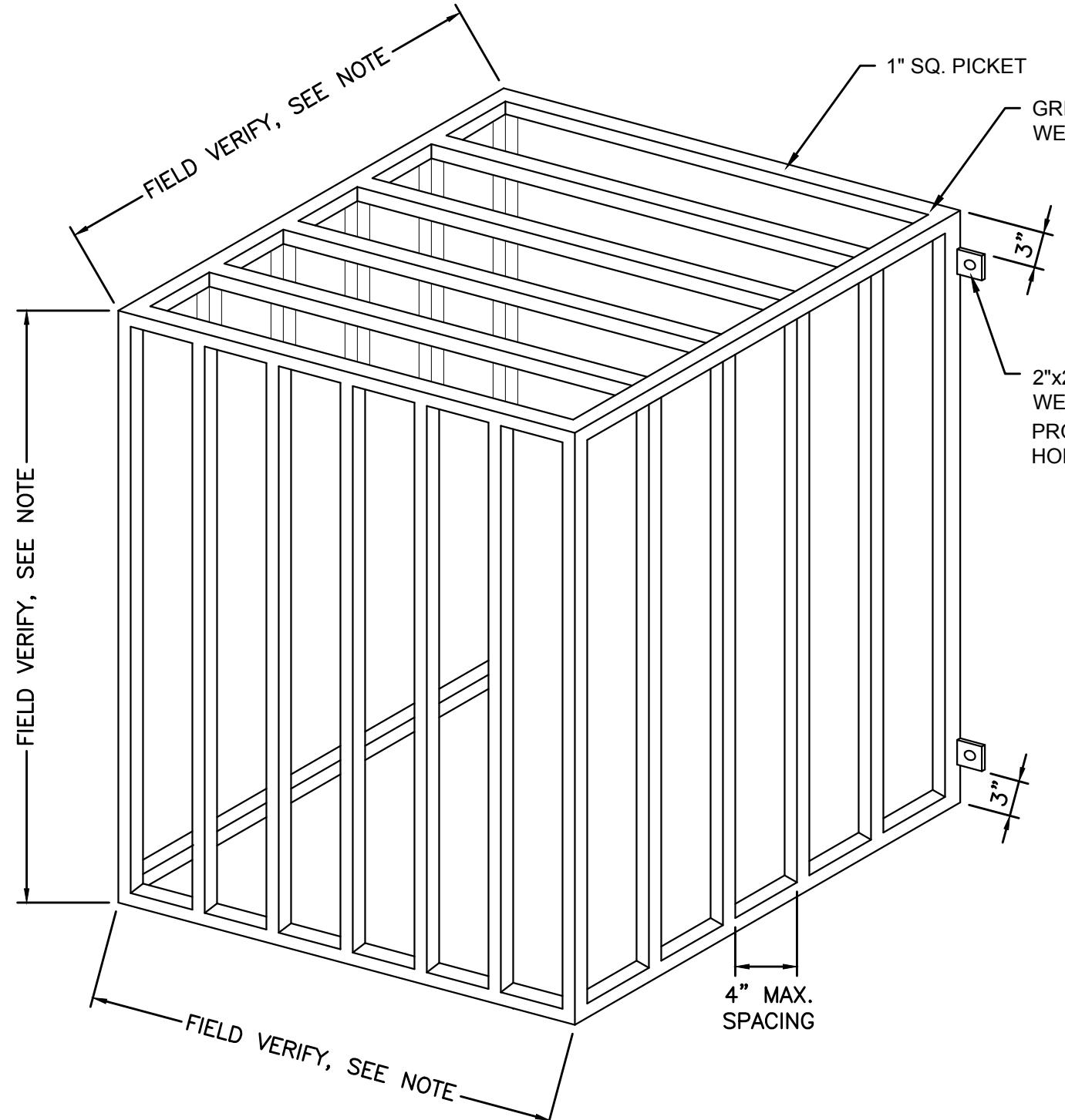
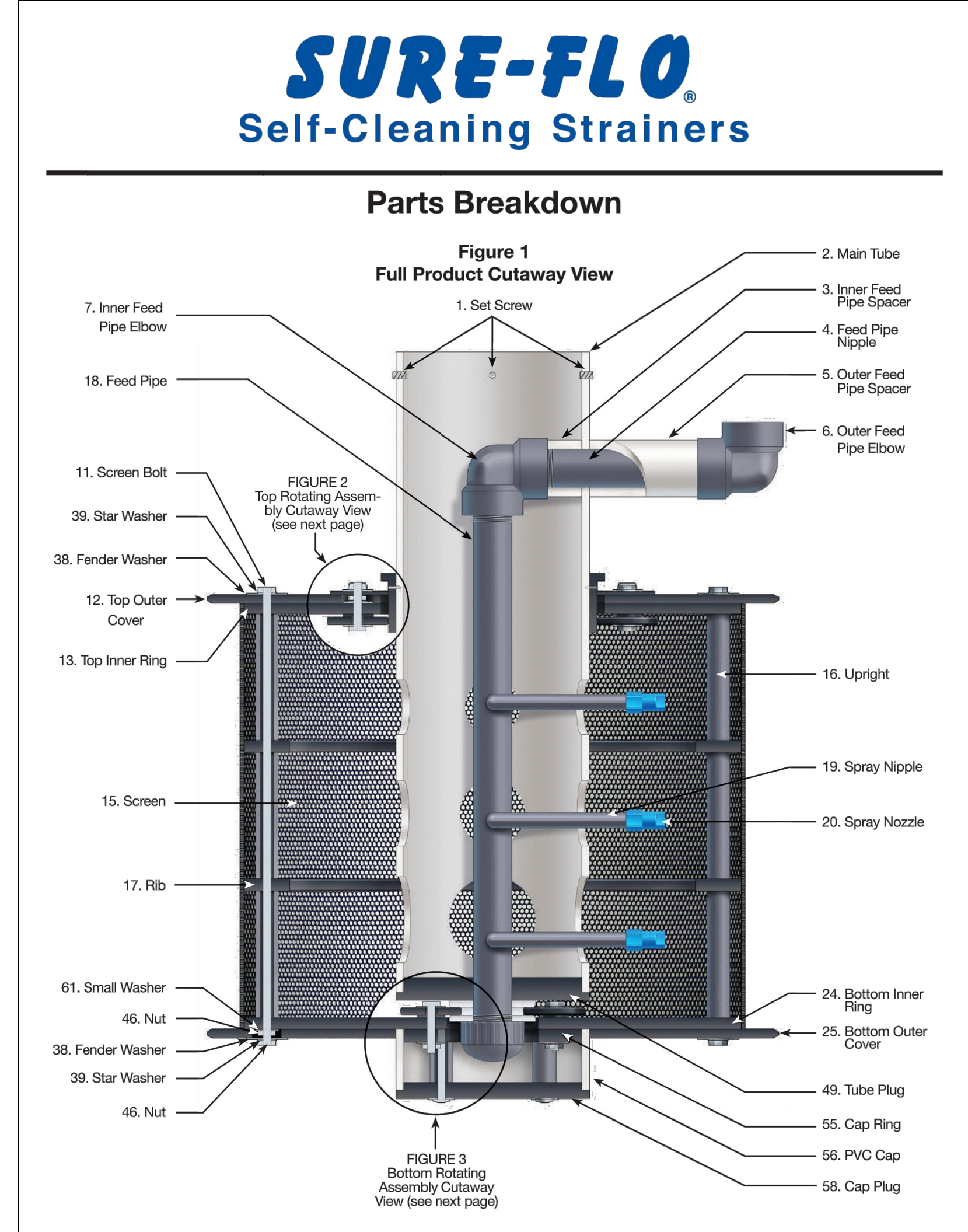
Sheet Name
ID-1

Project No.
6982

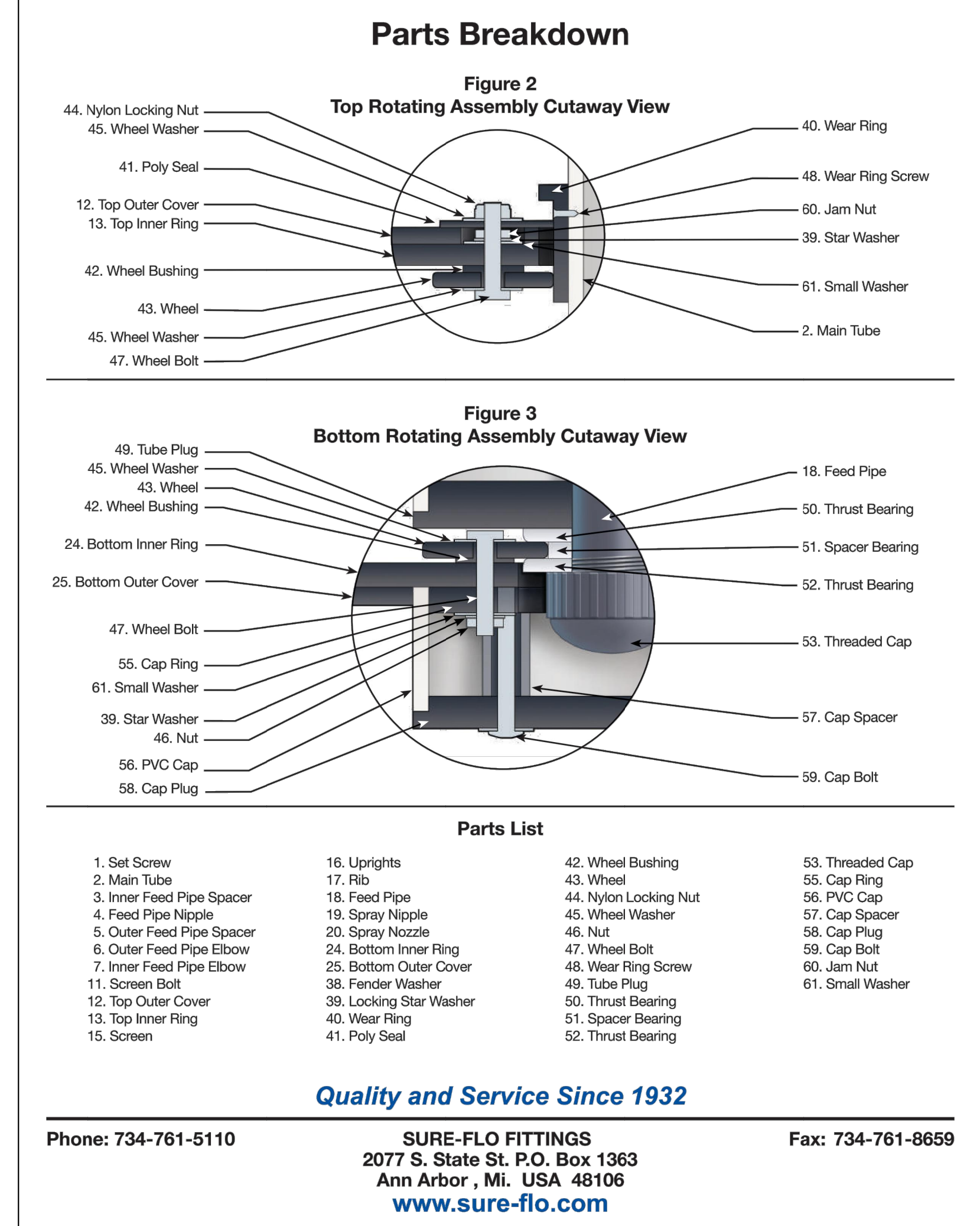




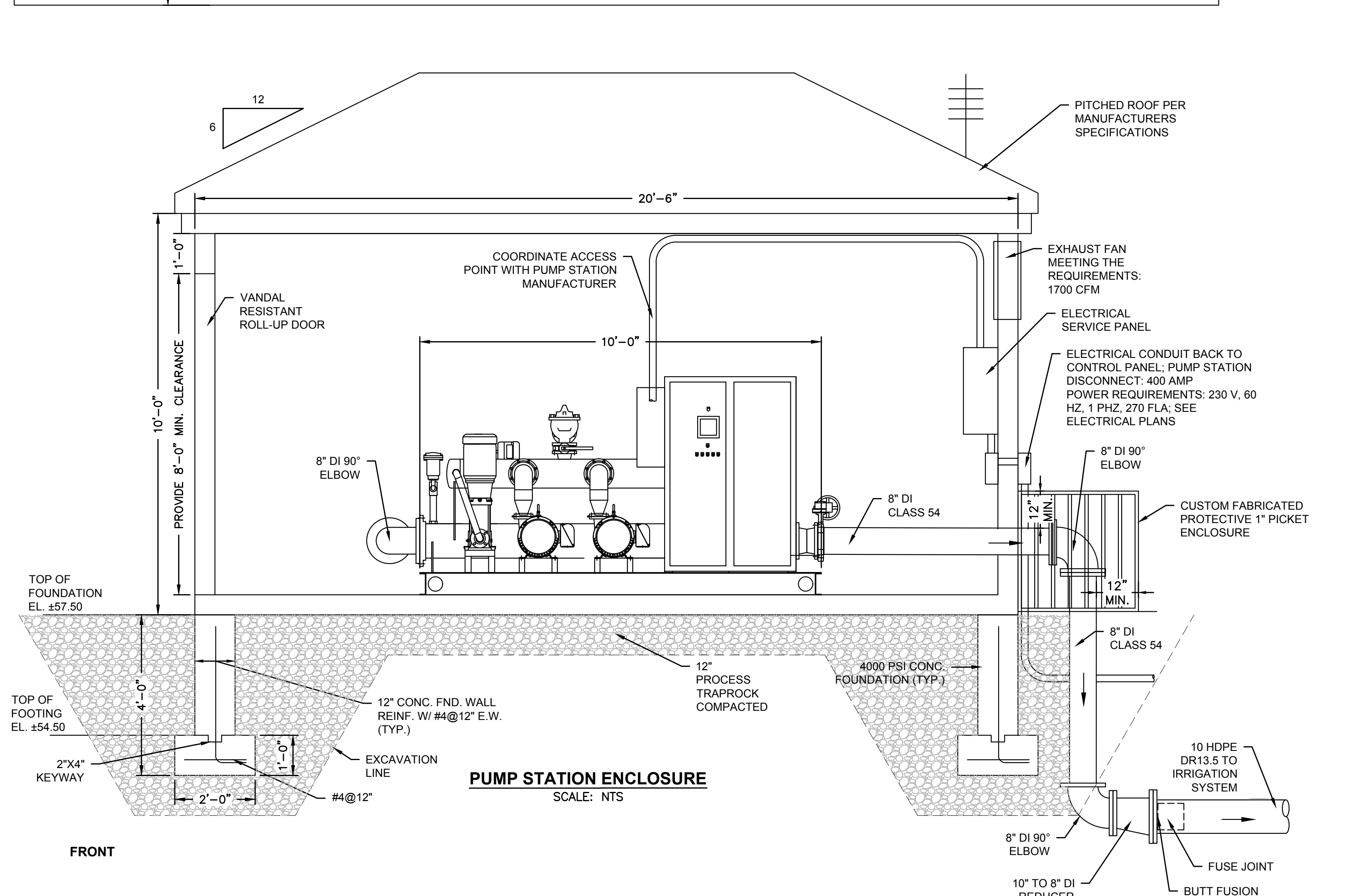
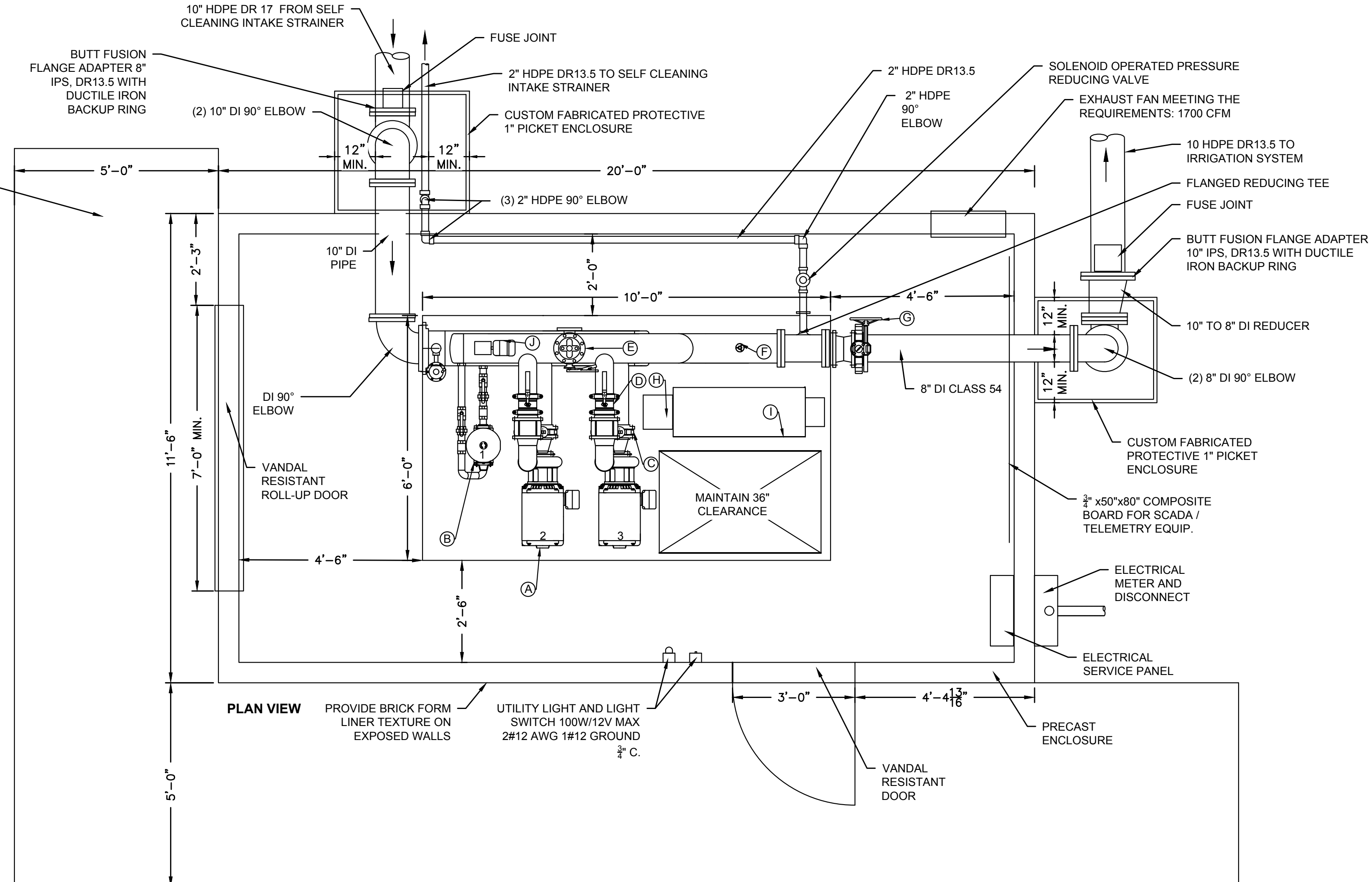
SECTION A-A PROFILE ALONG INTAKE PIPE & COMPOSITE FILTER
SCALE: 1"=1'-0"



PICKET PROTECTIVE ENCLOSURE
SCALE: NOT TO SCALE



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PUMP STATION ENCLOSURE
SCALE: NTS

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BETA 100 WETHERSFIELD AVENUE SUITE 600 HARTFORD, CONNECTICUT 06114 TEL: 860-513-1200 FAX: 860-513-1992

SCALE AS NOTED

BETA Proj. No. 6982 DPW- August 6, 2021

City of Hartford, Connecticut
Department of Public Works

PUMP, WET WELL, ENCLOSURE & SUPPORT WORKS DETAILS

Sheet Name
ID-2

Project No.
6982

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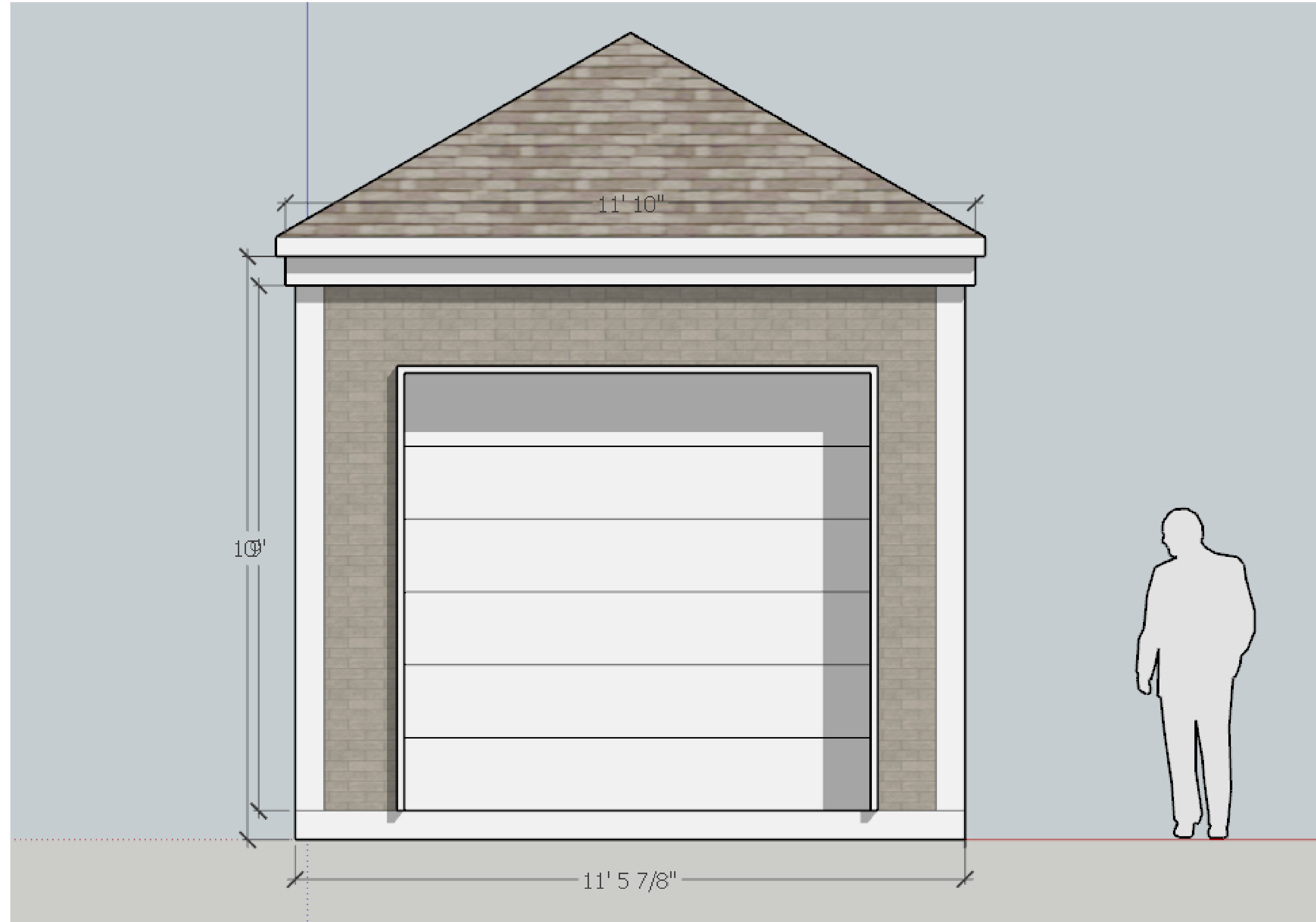


**Pump Station Example
from Manufacturer**
Scale: NTS

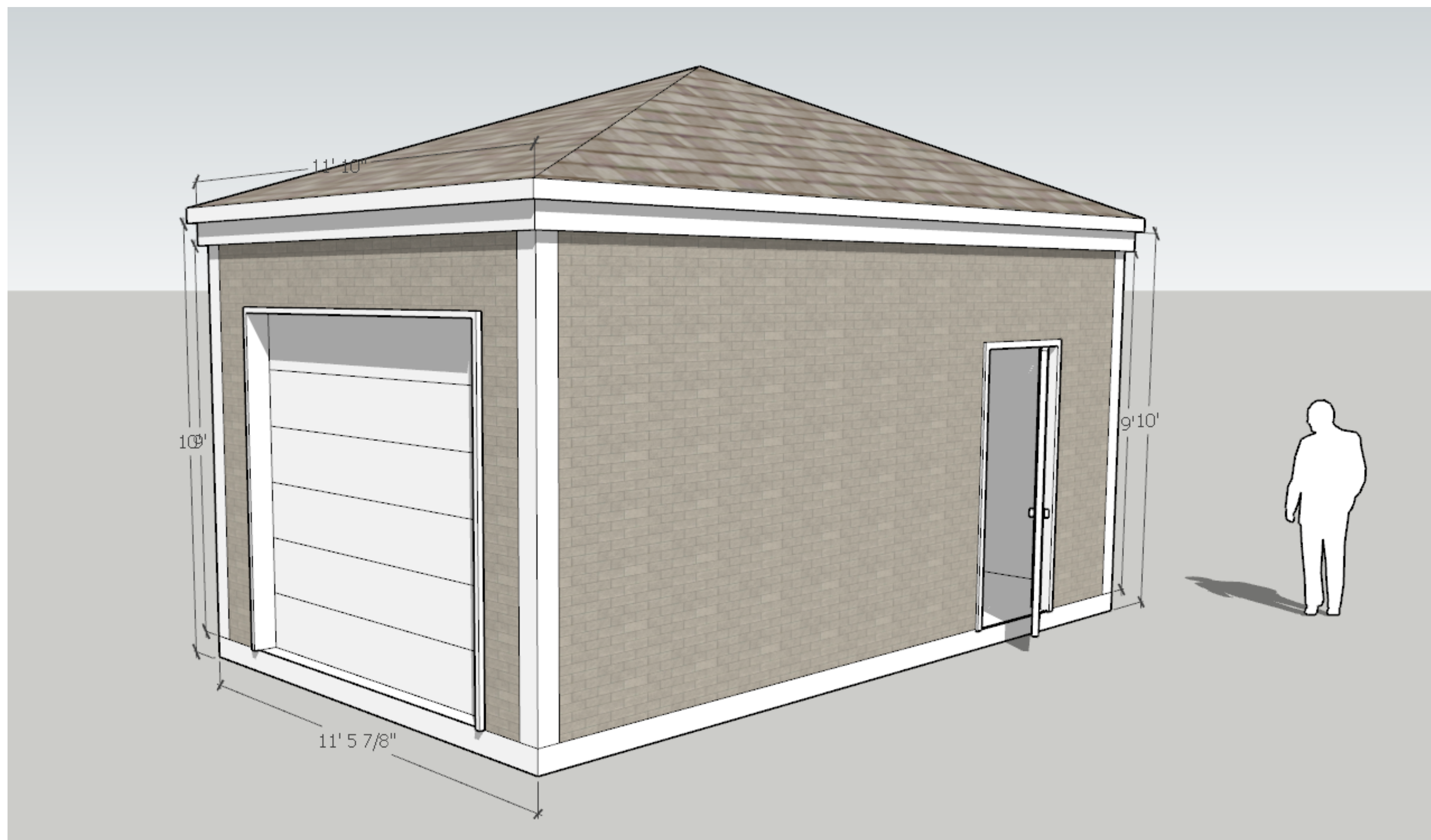
Exterior Finish:
Shall be Grey Brick Stucco to appear similar to existing nearby building.
Roof shall be a prefabricated wood truss system (hip) complete.



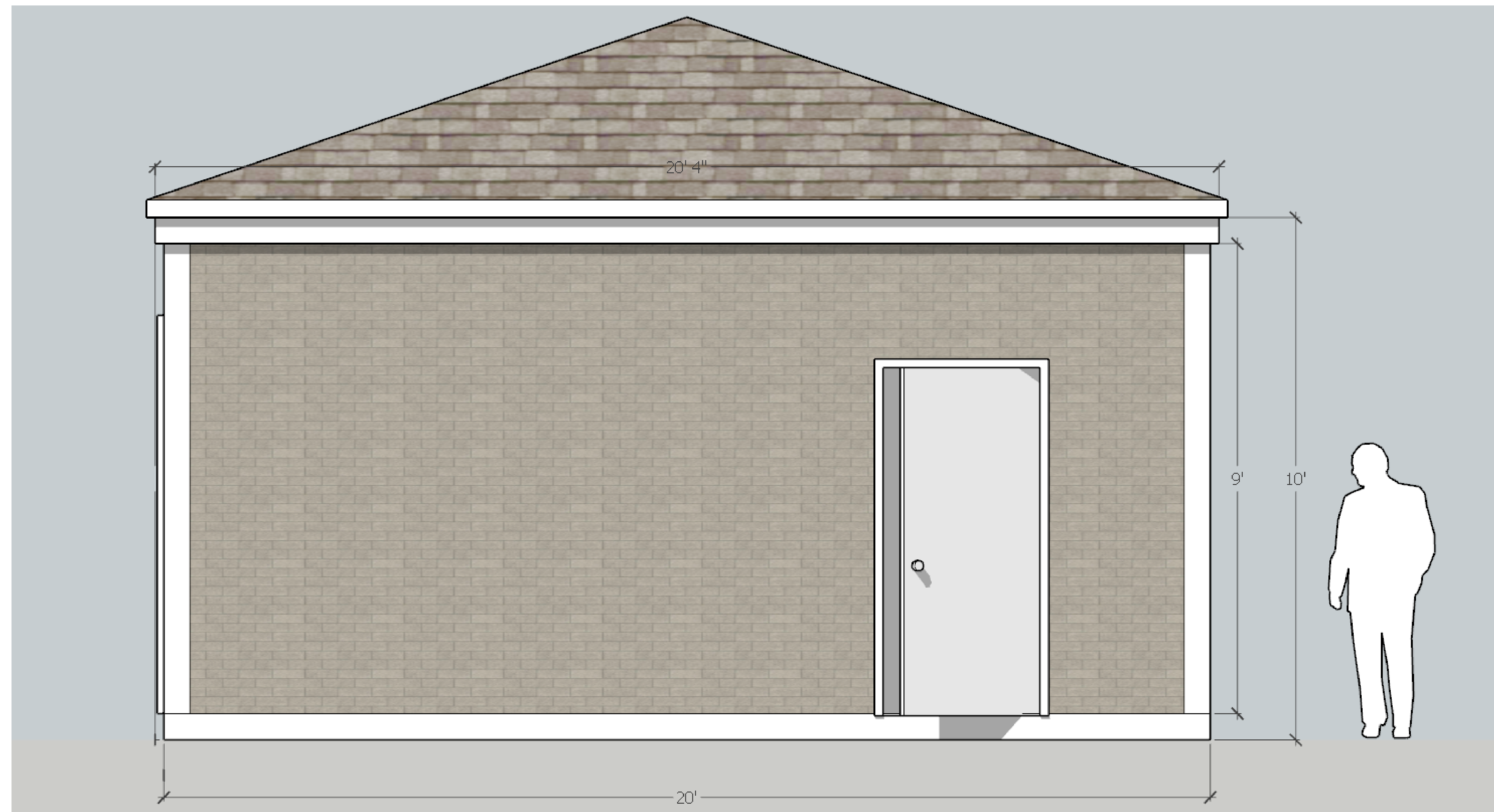
**Existing Building Near
Proposed Pump House**
Scale: NTS



Pump Station Side View
Scale: NTS



Pump Station Perspective
Scale: NTS



Pump Station Front View
Scale: NTS

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

BETA Proj. No. 6982 TBD TBD

BETA 1010 WETHERSFIELD AVENUE
SUITE 200
HARTFORD, CONNECTICUT 06114
TEL: 860-315-1322
TEL: 860-315-1922
FAX: 860-315-1922

SCALE AS NOTED

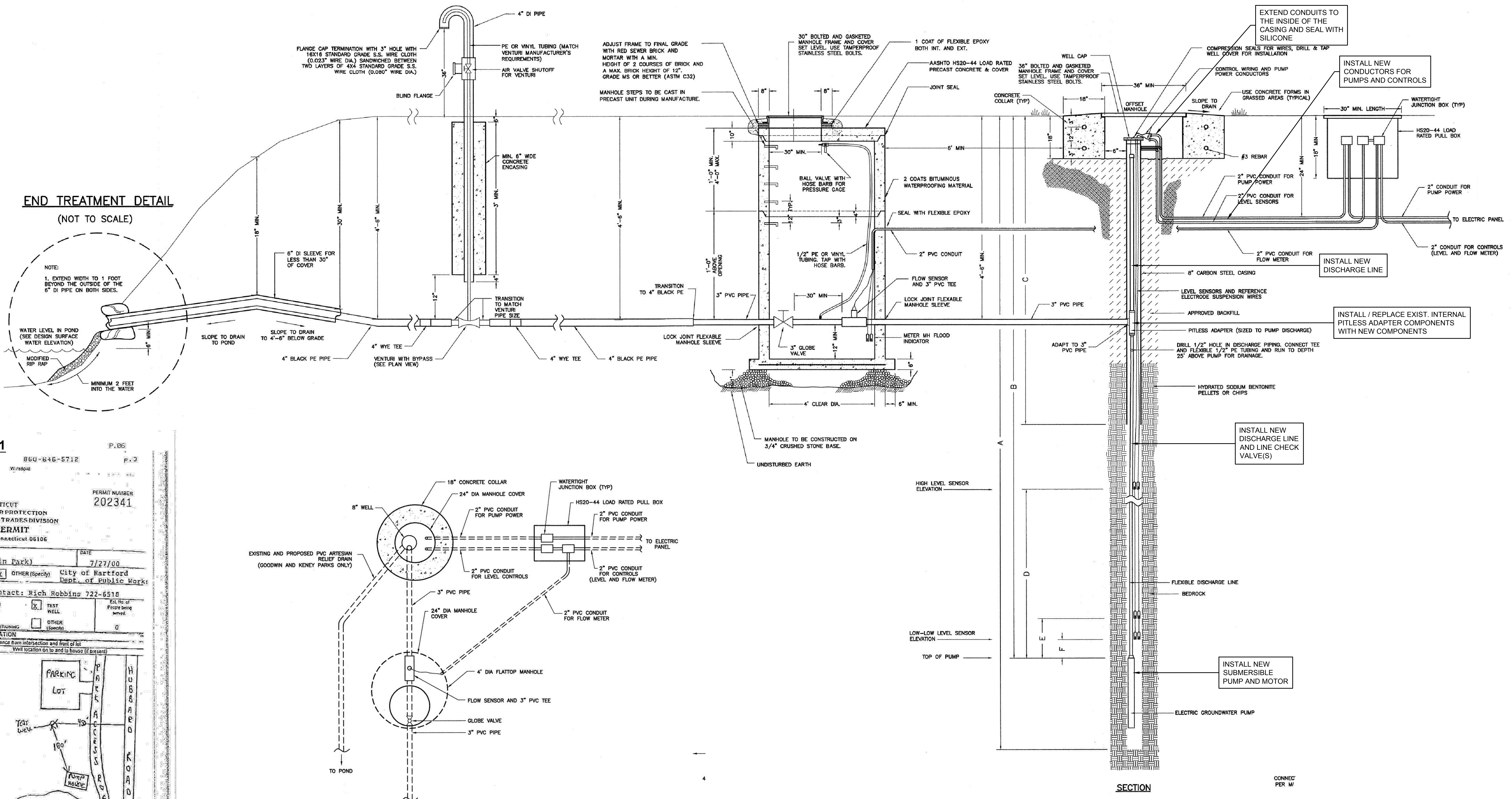
LINE AND COLOR CHANGES NOTED OR CHANGED BY THE PRODUCTION

City of Hartford, Connecticut
Department of Public Works

Enclosure Details



Sheet Name
ID-3
Project No.
6982



PUMP #1
 STATE OF CONNECTICUT
 DEPARTMENT OF CONSUMER PROTECTION
 REAL ESTATE & PROFESSIONAL TRADES DIVISION
 WELL DRILLING PERMIT
 165 Capitol Avenue, Hartford, Connecticut 06106

City of Hartford - Public Works 525 Main Street Hartford
 Maple Avenue Hartford (Goodwin Park)

APPROVED BY: [Signature]
 DATE: 7/27/10

DEPTH FROM LAND TO SURFACE (FEET TO FEET)	FORMATION DESCRIPTION	SKETCH LOCATION OF WELL WITH ELEVATION, IF APPLICABLE (ATTACHED SEPARATELY)
0	20 Clay	[Sketch of well location showing depth markers and surrounding area]
20	35 Sandy Till	
35	50 Hardpan	
50	360 Shale	
360	405 Traprock	

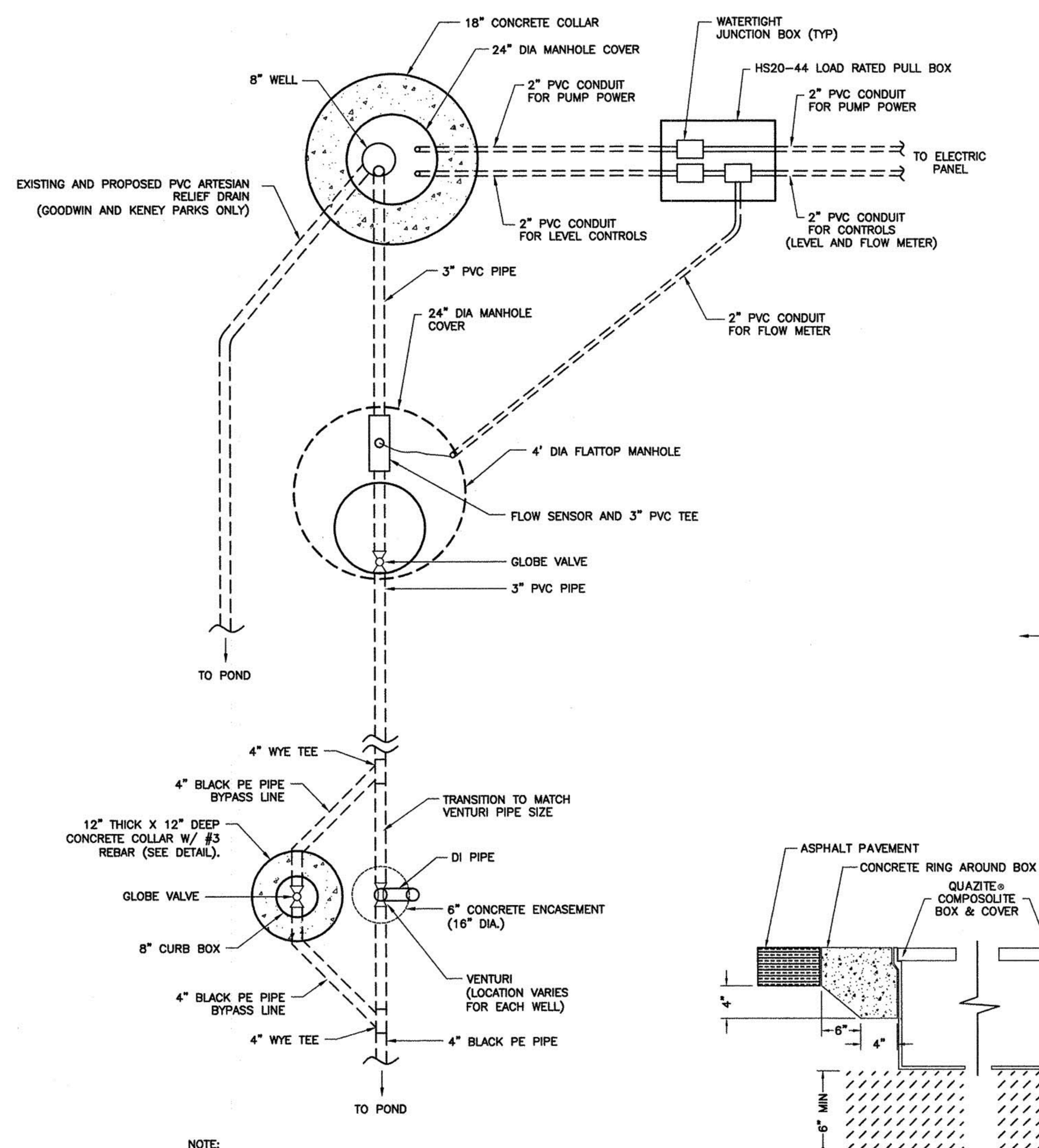
PUMP #1
 STATE OF CONNECTICUT
 DEPARTMENT OF CONSUMER PROTECTION
 REAL ESTATE & PROFESSIONAL TRADES DIVISION
 WELL DRILLING PERMIT
 165 Capitol Avenue, Hartford, Connecticut 06106

City of Hartford - Public Works 525 Main Street Hartford
 Maple Avenue Hartford (Goodwin Park)

APPROVED BY: [Signature]
 DATE: 7/27/10

APPROXIMATE DEPTH OF WELL TO BE DRILLED TO: 450 FT. TO SANITARY SEWER UNDER HUBBARD ROAD

For safety purposes casing to be cut off approximately six inches below grade. The casing will be sealed with a well plug. The casing will be covered with a 12" diameter curb box installed in concrete backfill. Well may be used in the future to supply non-potable water to Goodwin Park Pond.



PUMP #2
 STATE OF CONNECTICUT
 DEPARTMENT OF CONSUMER PROTECTION
 REAL ESTATE & PROFESSIONAL TRADES DIVISION
 WELL DRILLING PERMIT
 165 Capitol Avenue, Hartford, Connecticut 06106

City of Hartford - Public Works 525 Main Street Hartford
 Maple Avenue Hartford (Goodwin Park)

APPROVED BY: [Signature]
 DATE: 6-10-10

DEPTH FROM LAND TO SURFACE (FEET TO FEET)	FORMATION DESCRIPTION	SKETCH LOCATION OF WELL WITH ELEVATION, IF APPLICABLE (ATTACHED SEPARATELY)
0	24 Hardpan	[Sketch of well location showing depth markers and surrounding area]
24	34 Wet Till	
34	345 Red & Gray Shale	
345	360 Traprock	

PUMP #2
 STATE OF CONNECTICUT
 DEPARTMENT OF CONSUMER PROTECTION
 REAL ESTATE & PROFESSIONAL TRADES DIVISION
 WELL DRILLING PERMIT
 165 Capitol Avenue, Hartford, Connecticut 06106

City of Hartford - Public Works 525 Main Street Hartford
 Maple Avenue Hartford (Goodwin Park)

APPROVED BY: [Signature]
 DATE: 7/10/10

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.

WELL PUMP REPORTS

Revisions	By	Date	Notice	Sign-Offs	By	Date
			Manual revisions to this drawing are prohibited. The use of this drawing by any corporation, or by any person, for any reason, without written authorized consent of the City of Hartford is prohibited.	Drawn	NS/CC	11/25
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GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS
 HARTFORD, CONNECTICUT 06103

BETA Proj. No. 6982 DPW- August 6, 2011

BETA
 100 WETHERFIELD AVENUE
 SUITE 200
 HARTFORD, CONNECTICUT 06114
 TEL: 860-513-1200
 FAX: 860-513-1202

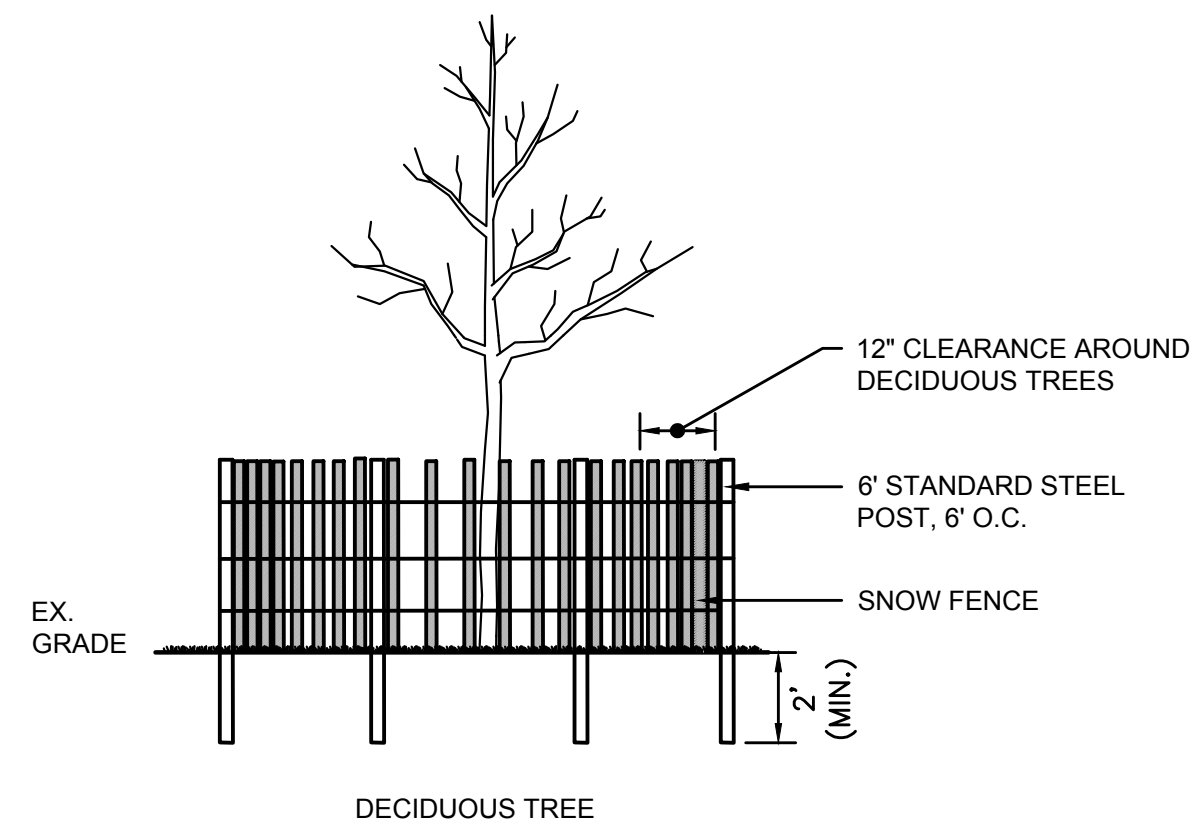
SCALE AS SHOWN BY INDICATION

City of Hartford, Connecticut
 Department of Public Works

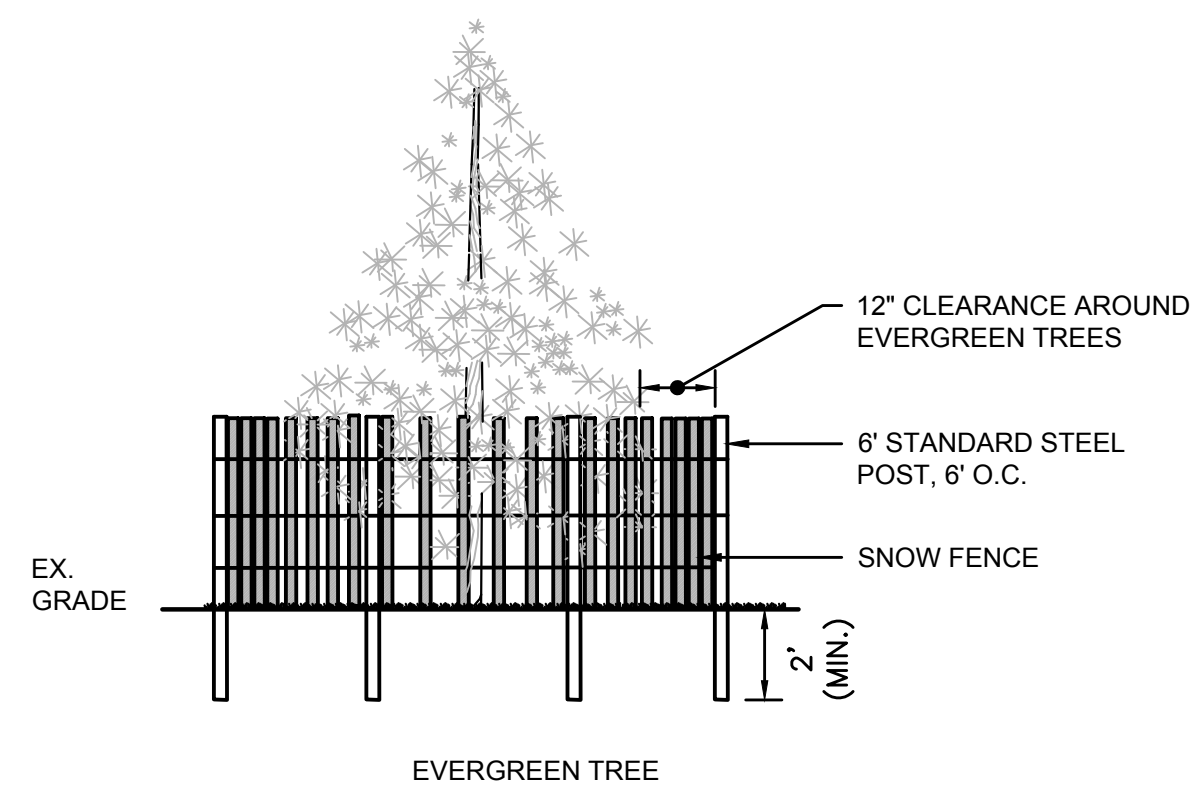
WELL DETAILS

Sheet Name
ID-4

Project No.
 6982

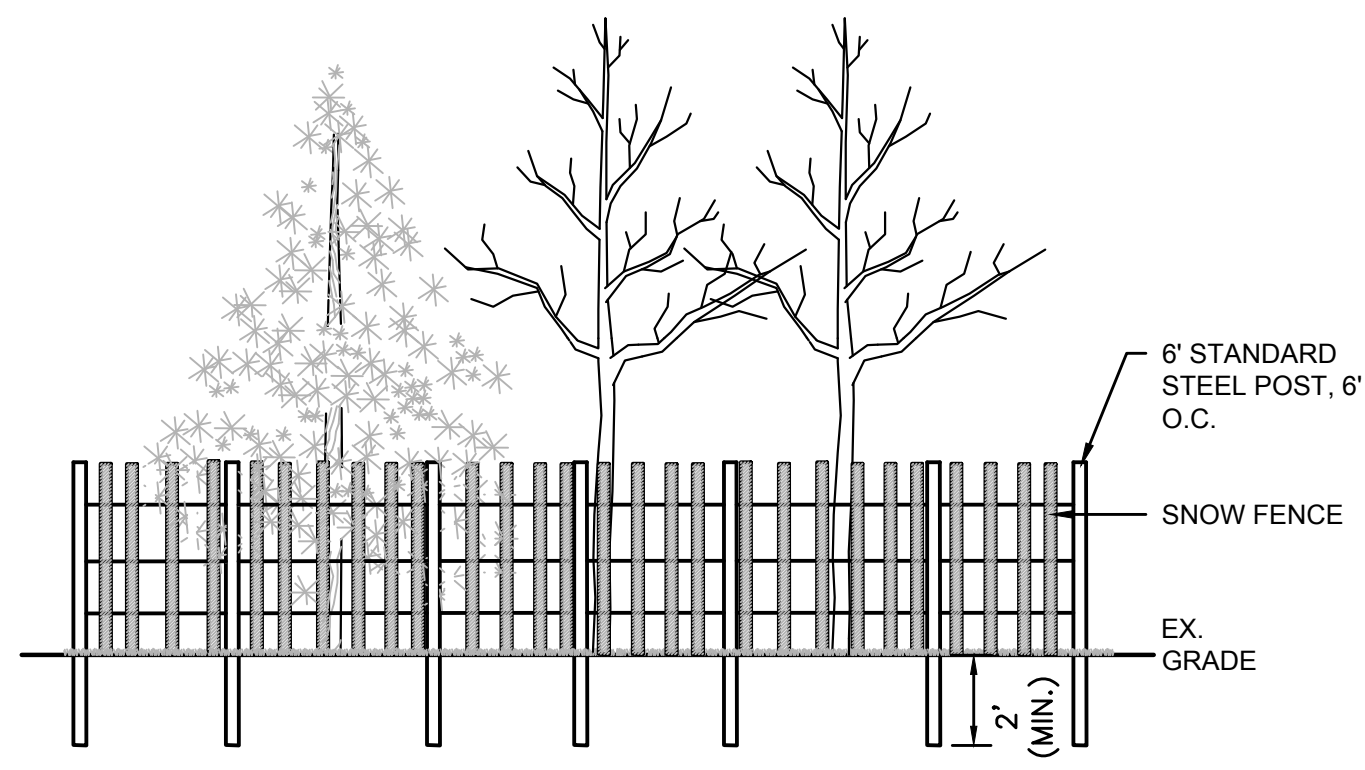


DECIDUOUS TREE

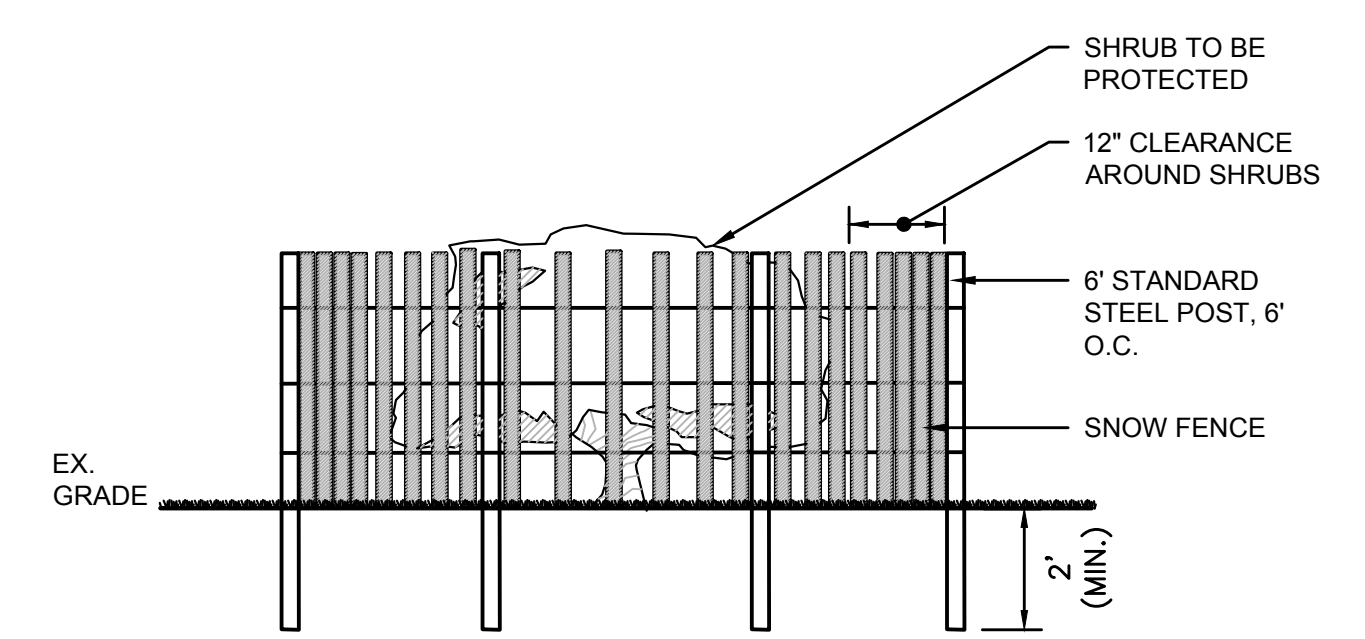


EVERGREEN TREE

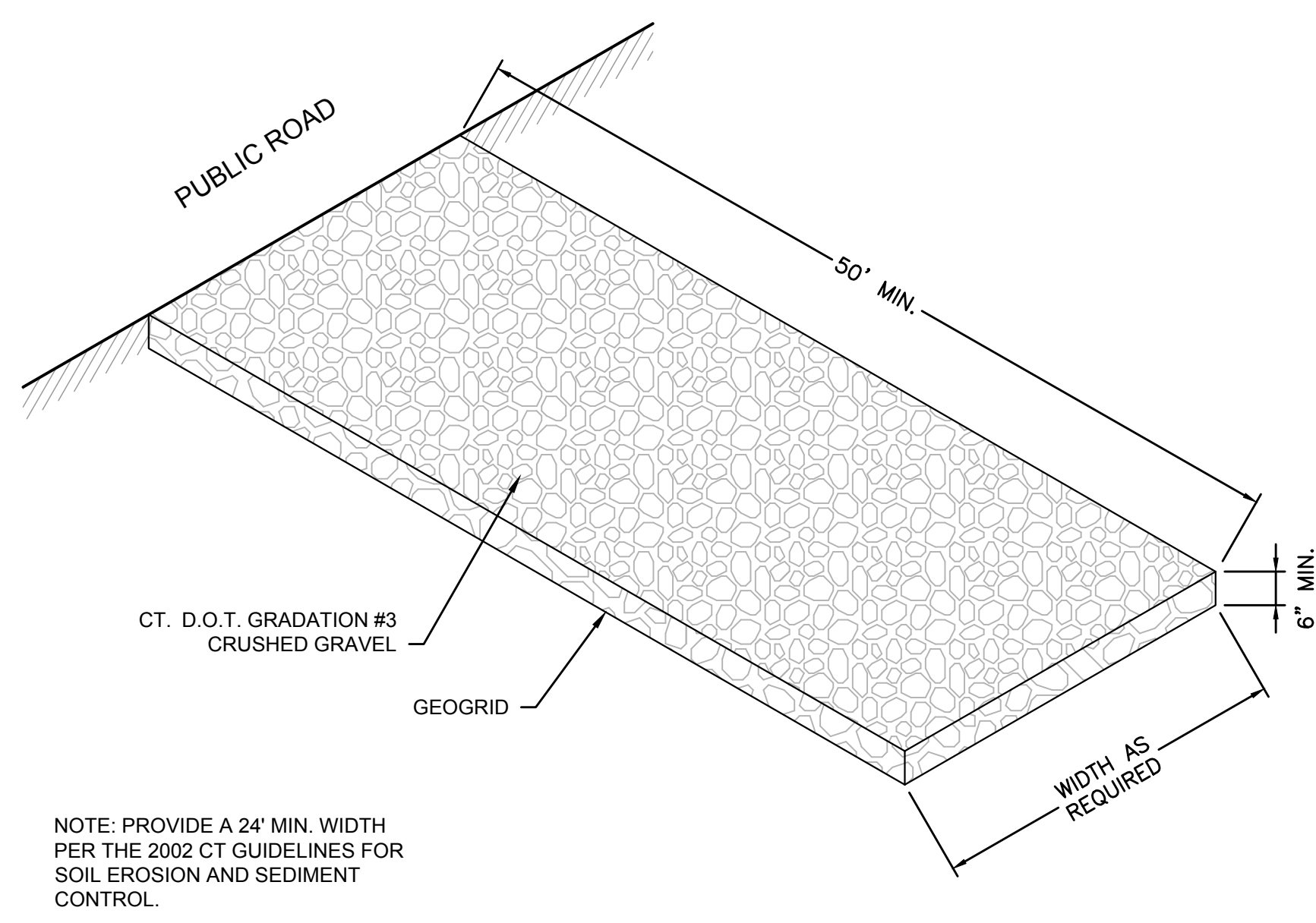
DRIPLINE TREE PROTECTION DEVICE
NOT TO SCALE



TREE GROUP PROTECTION
NOT TO SCALE

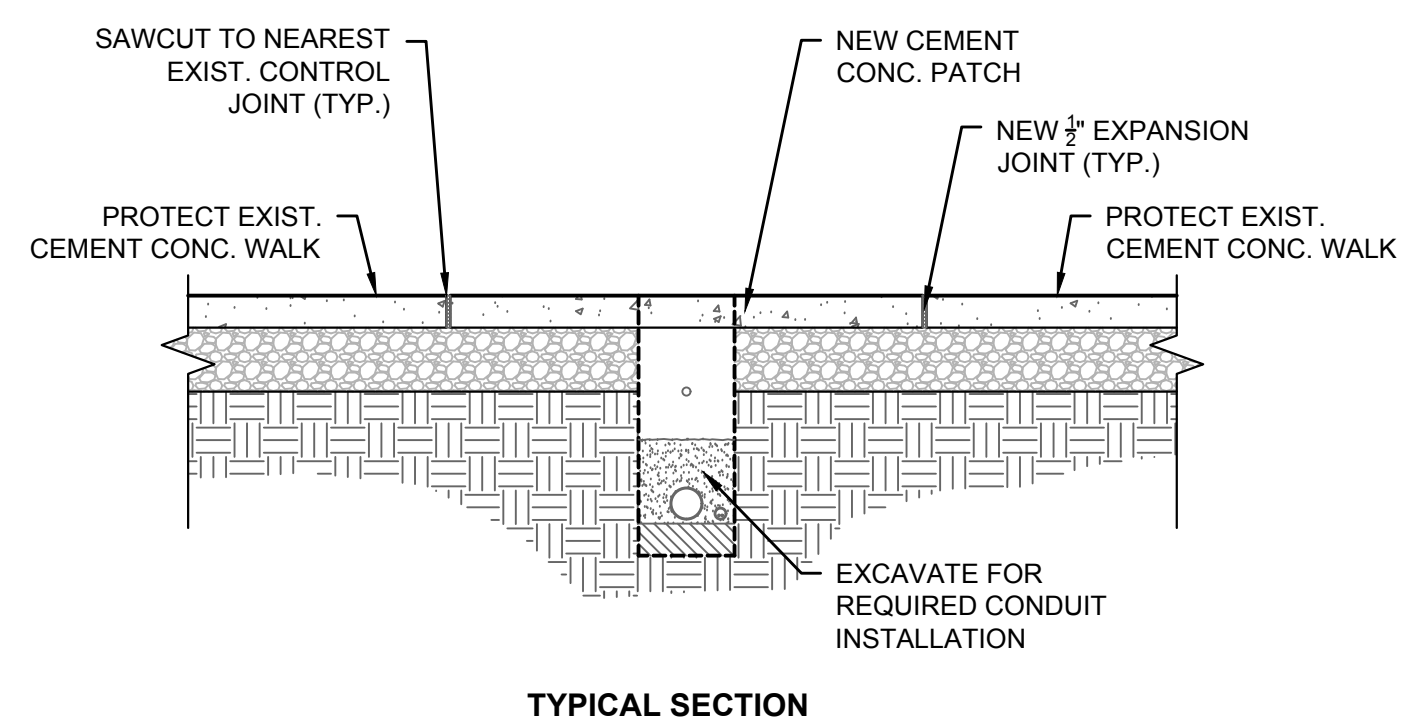


SHRUB PROTECTION DEVICE
NOT TO SCALE

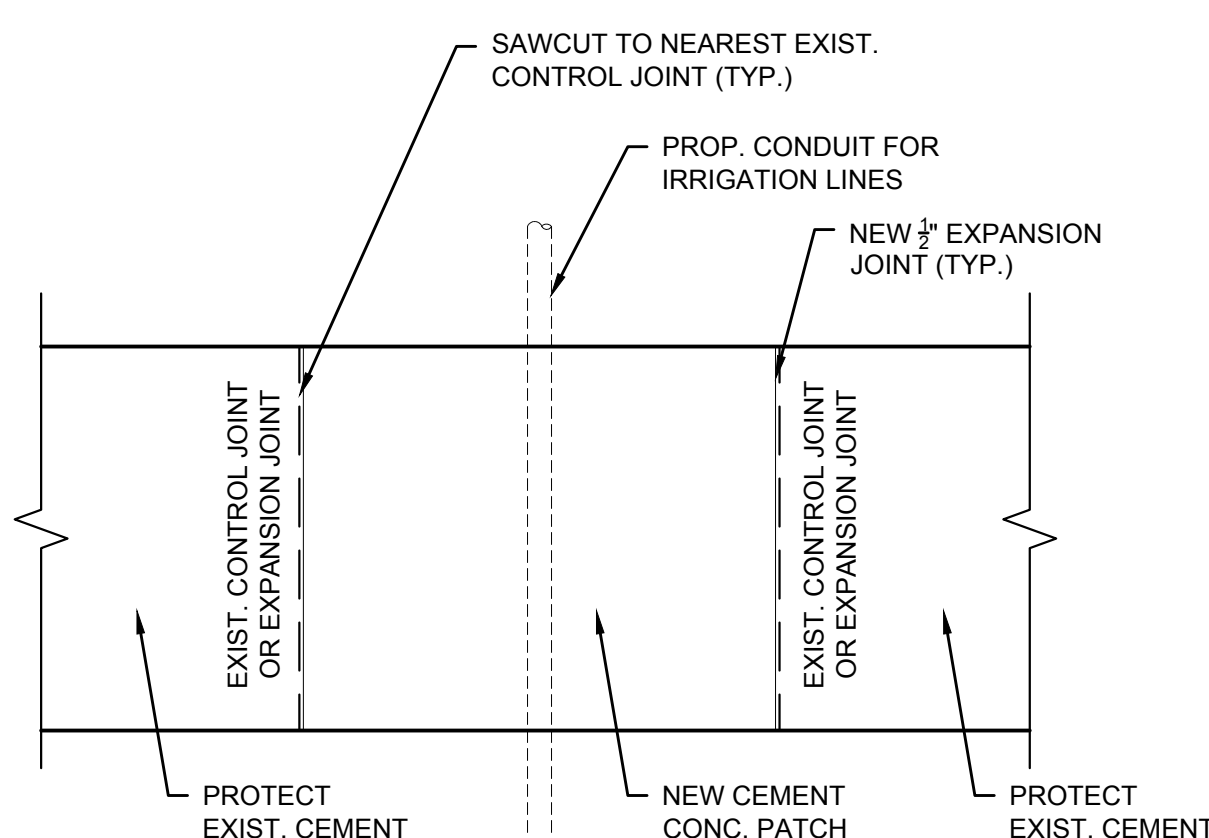


CONSTRUCTION ENTRANCE
NOT TO SCALE

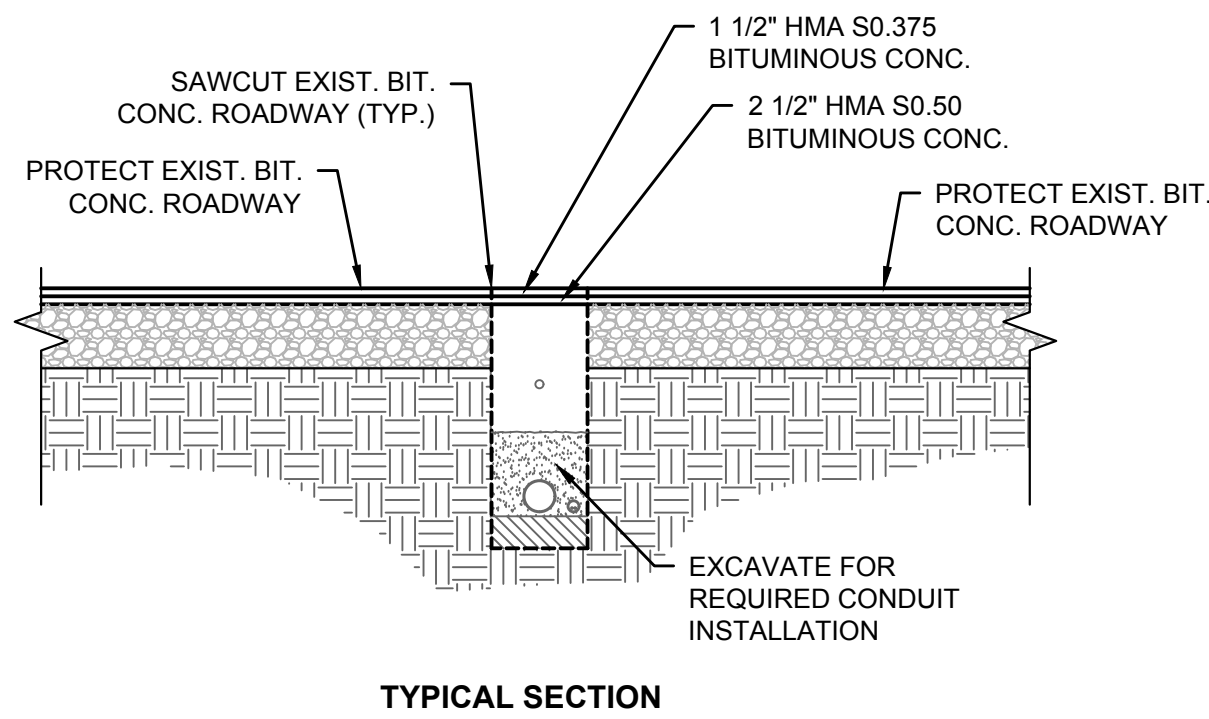
NOTE: PROVIDE A 24" MIN. WIDTH PER THE 2002 CT GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.



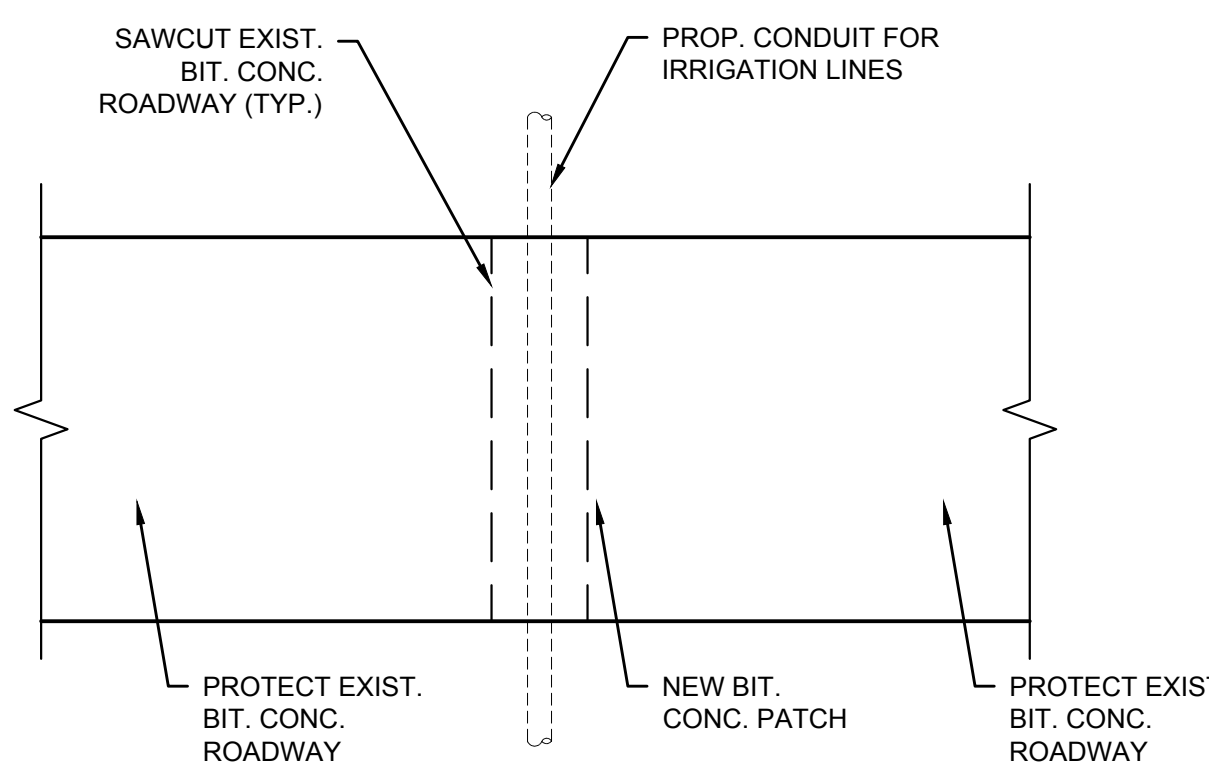
TYPICAL SECTION



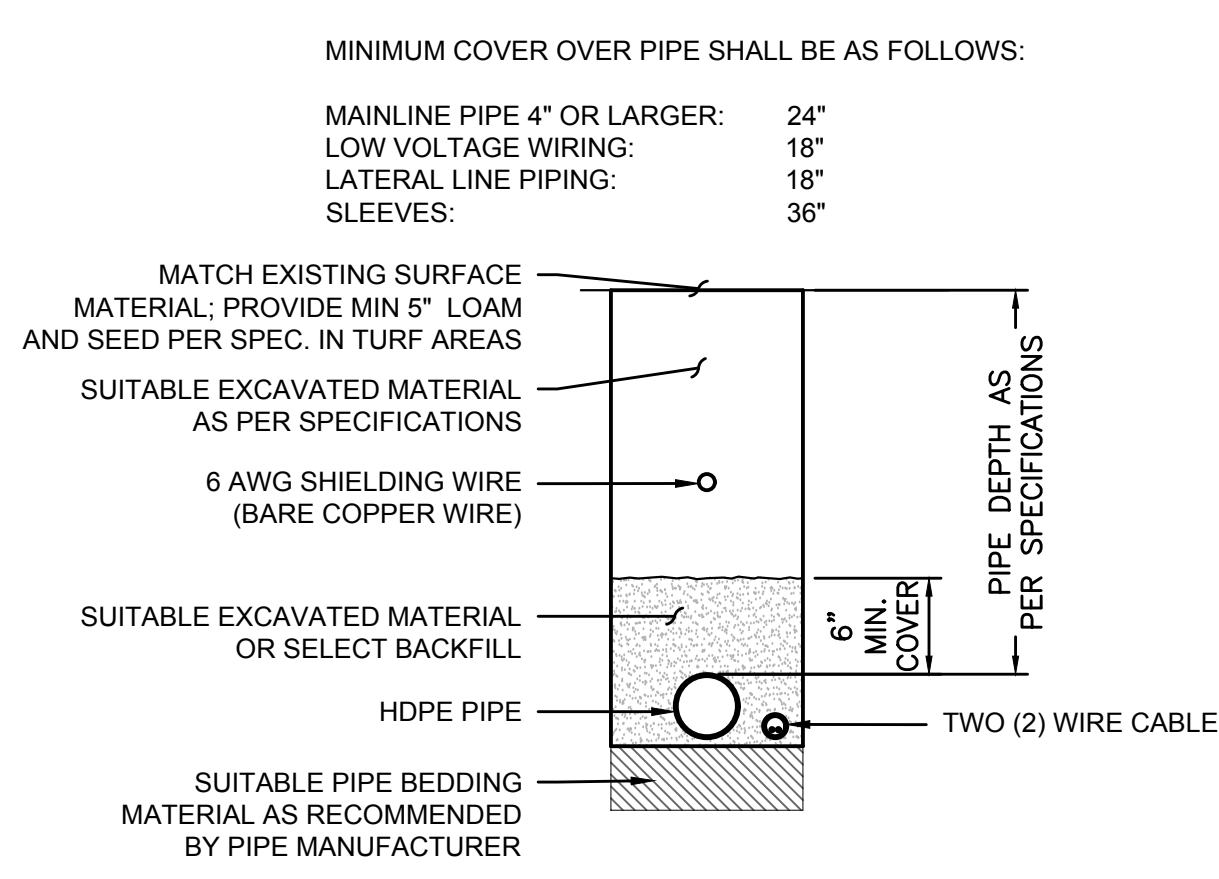
CONCRETE SIDEWALK PATCH
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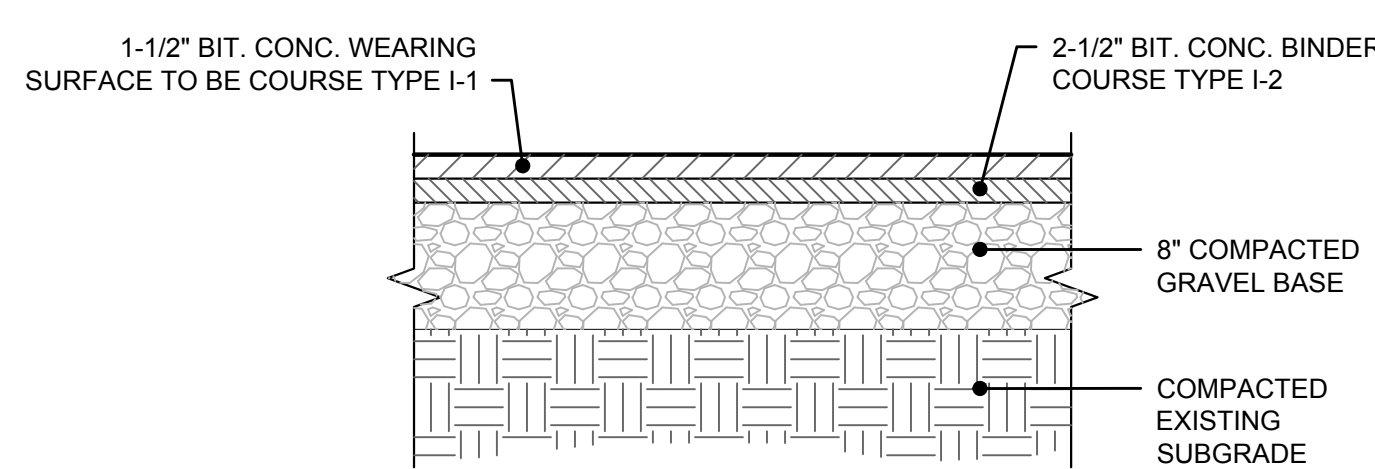
TYPICAL SECTION



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



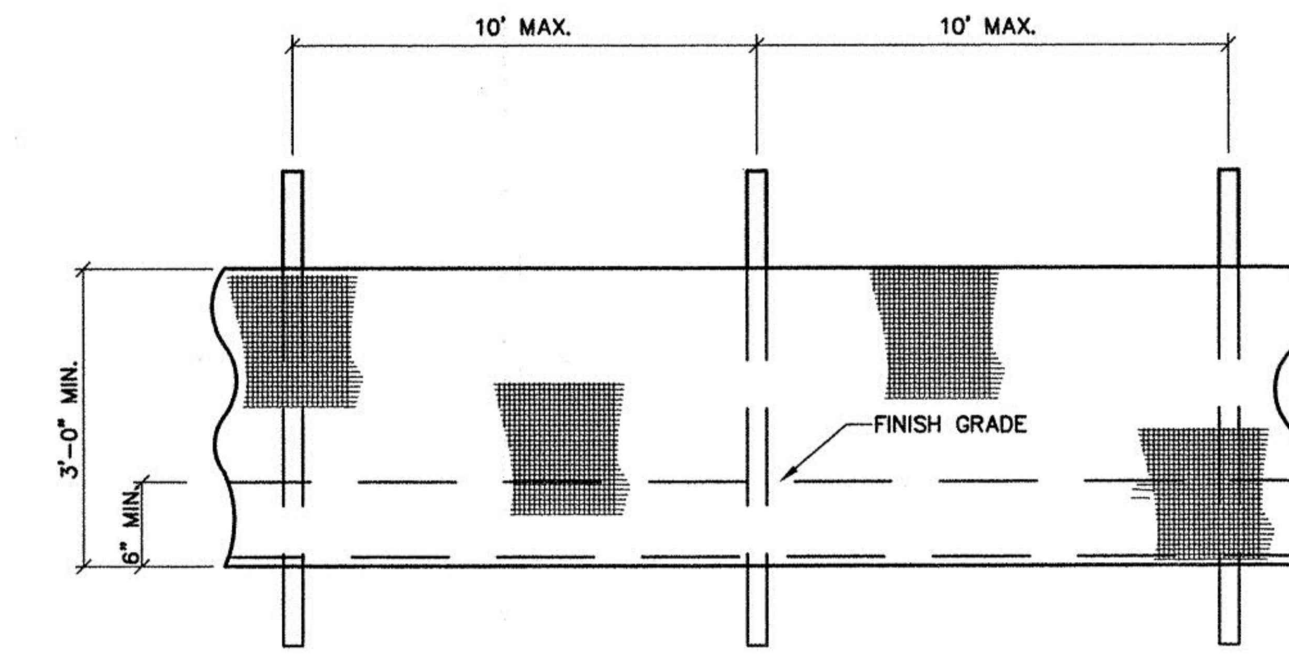
MAINLINE TRENCH
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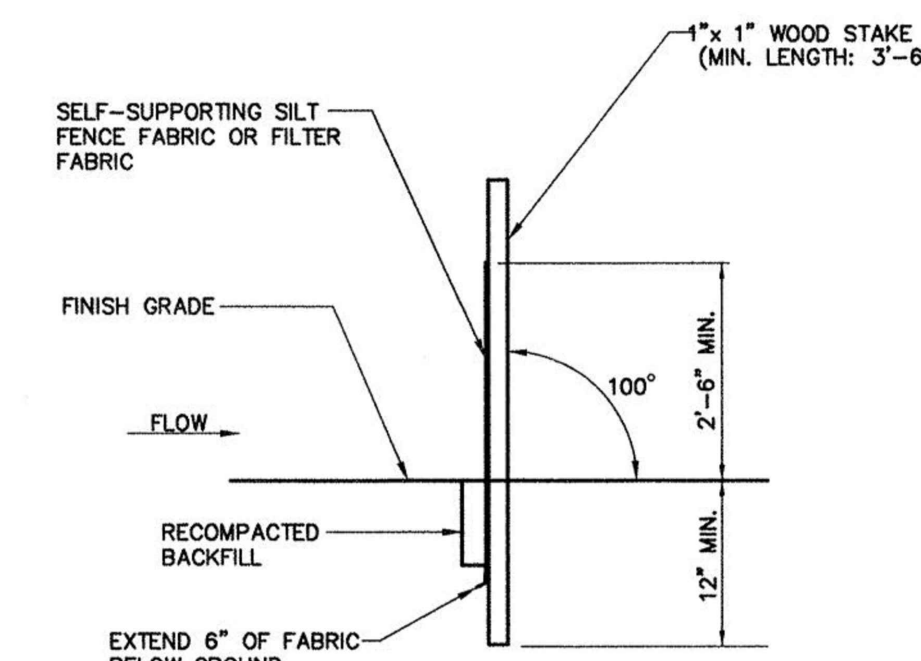
BITUMINOUS PAVING
SCALE: 1"=1'-0"

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 THE SLOPE OF PROPOSED EXCAVATION AREAS PRIOR TO BEGINNING FILL INSTALLATION. STABILIZATION OF SLOPES IN EXCAVATION AREAS (USING MULCH OR GRASS) SHALL BE 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 DRAINAGE 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 SWEEP 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

- FILTERING EFFICIENCY
75% (MIN.)
- TENSILE STRENGTH AT 20% (MAX.) ELONGATION
50 LB. / LIN. IN.
STANDARD STRENGTH
30 LB. / LIN. IN. (MAX.)

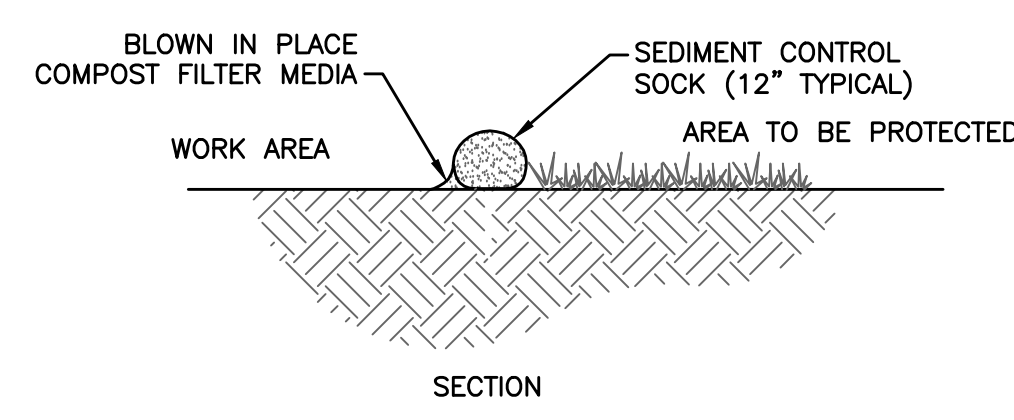
REQUIREMENTS

- EXTRA STRENGTH
50 LB. / LIN. IN.
STANDARD STRENGTH
30 LB. / LIN. IN. (MAX.)

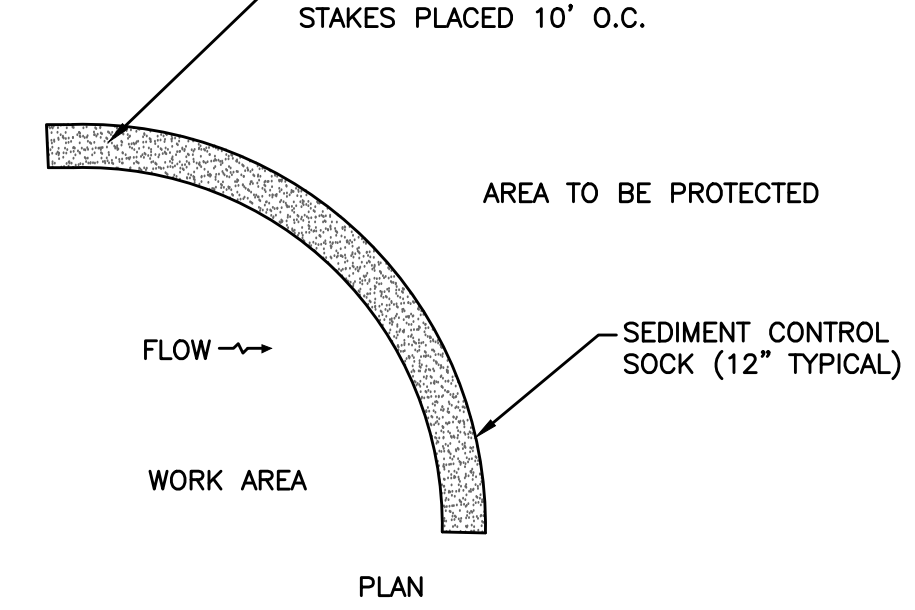
FLOW RATE

- 0.3 GAL. / SQ. FT. / MIN. (MAX.)

SILT FENCE

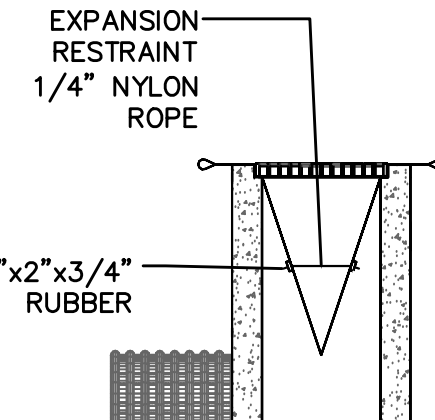


SEDIMENT CONTROL 'COMPOST SOCK'
NOT TO SCALE



SEDIMENT CONTROL 'COMPOST SOCK'
NOT TO SCALE

- 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 THROUGH 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 AND THE AREA HAS STABILIZED.

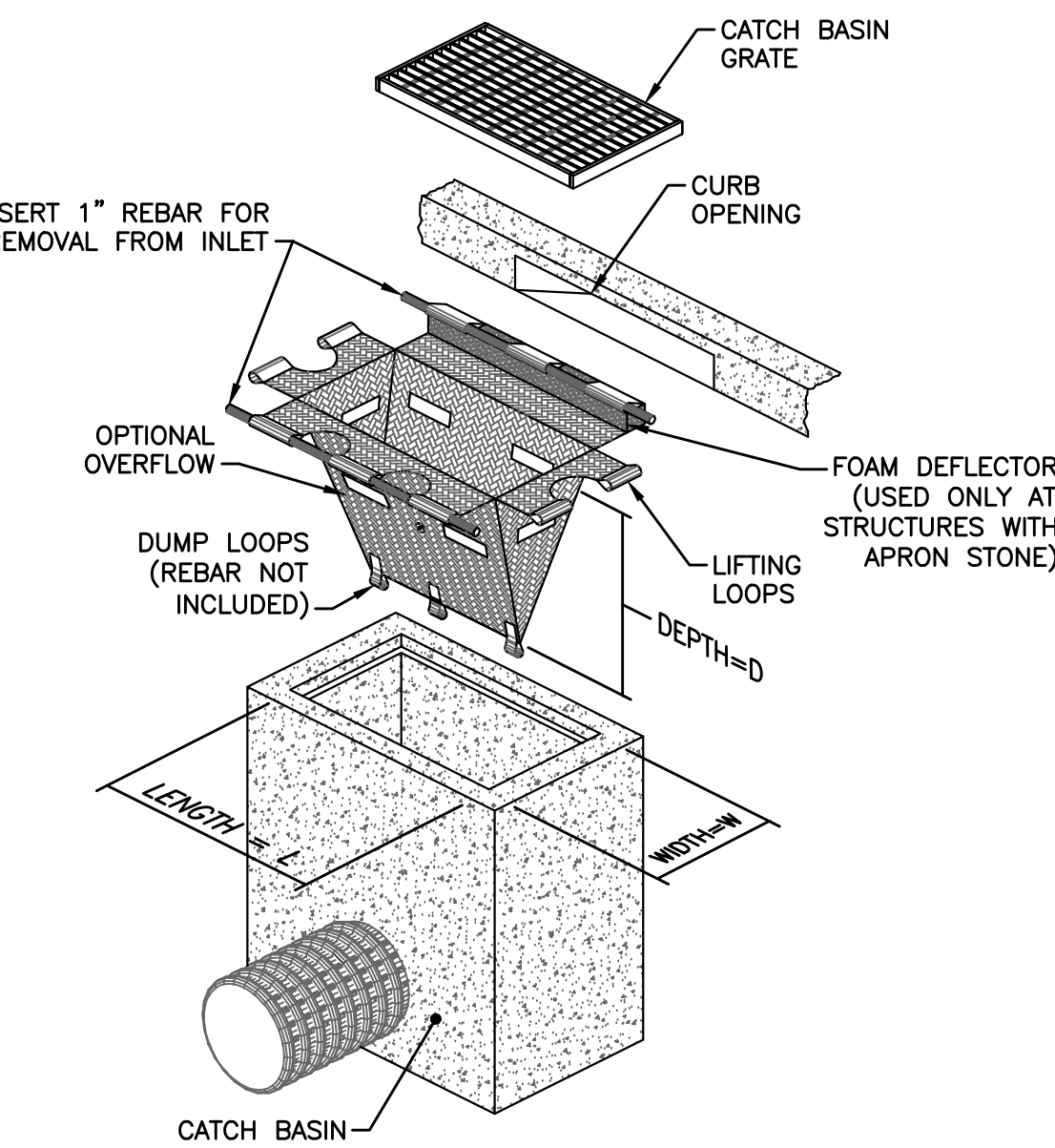


SILT SACK DETAIL
N.T.S.

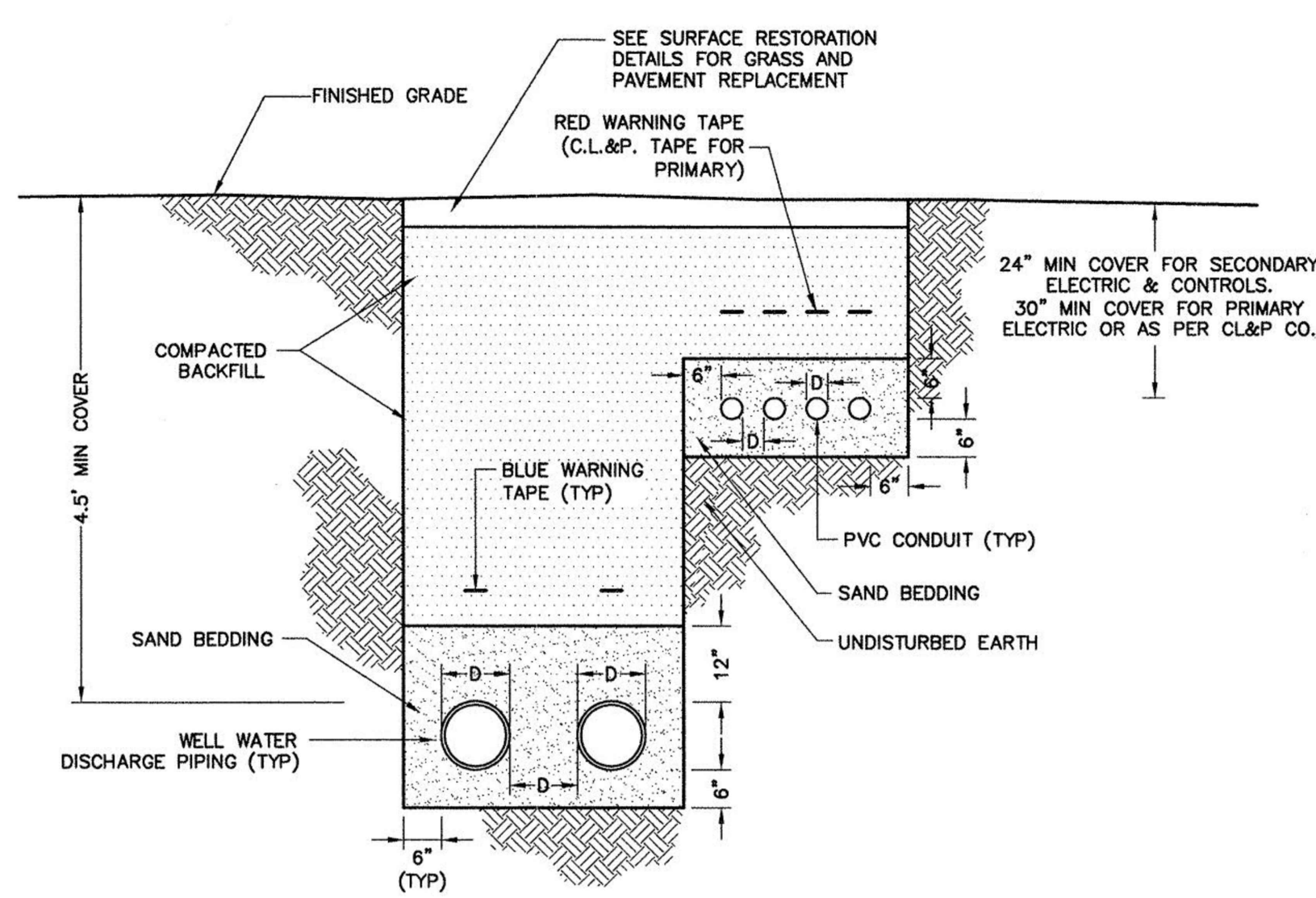
NOTES:

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 POLYPROPYLENE 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 FEET 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.



CATCH BASIN DETAIL
N.T.S.



TRENCH DETAIL
N.T.S.

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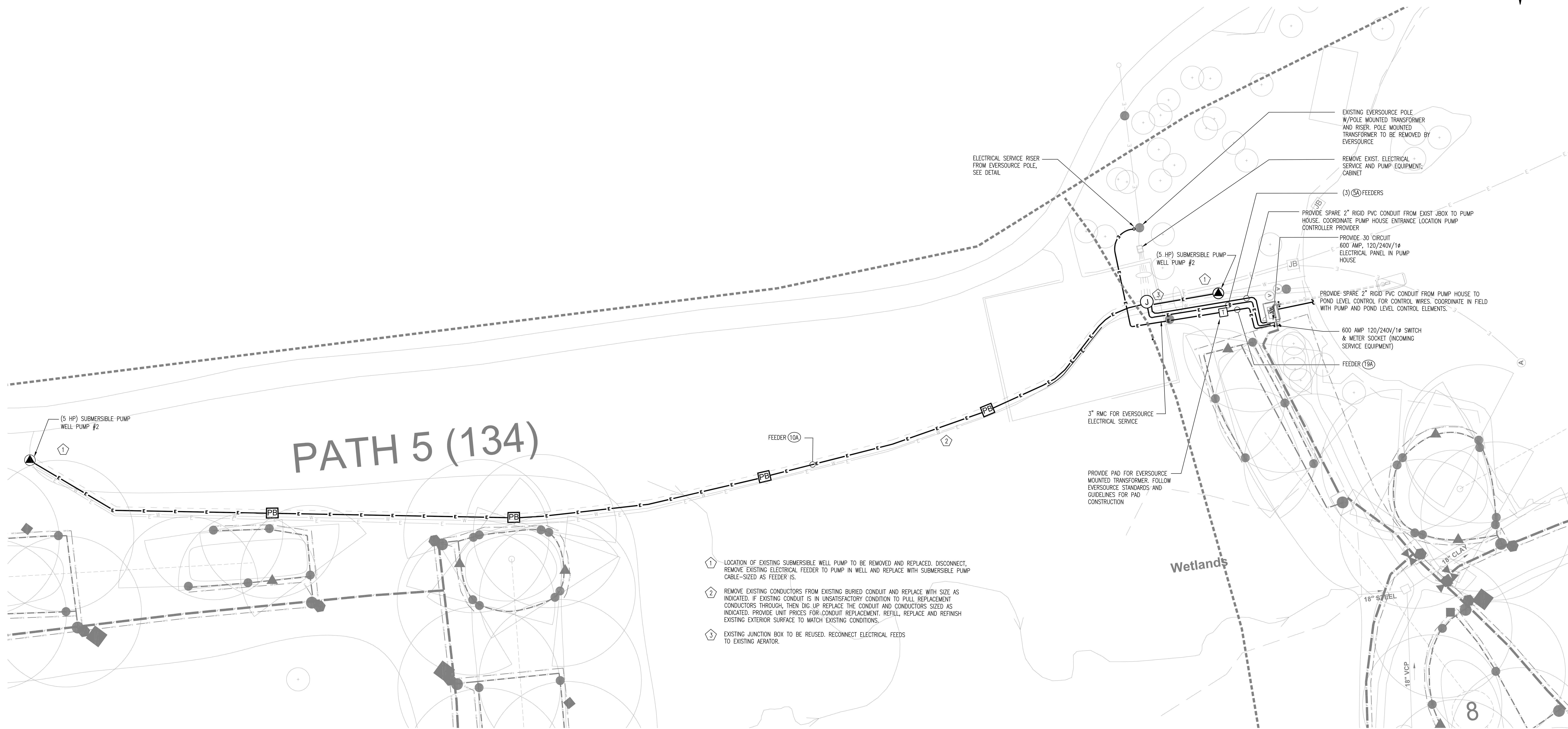
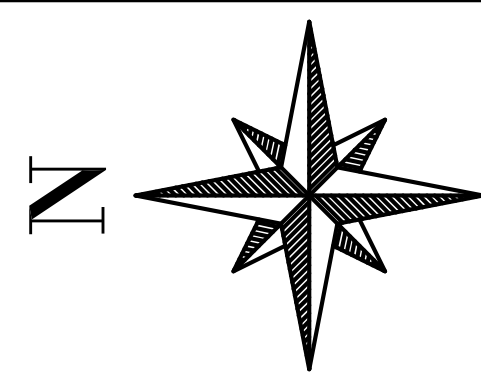
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GOODWIN PARK IRRIGATION & BOOSTER PUMP IMPROVEMENTS HARTFORD, CONNECTICUT 06103		
BETA Proj. No. 6982	DPW-	August 6, 2021

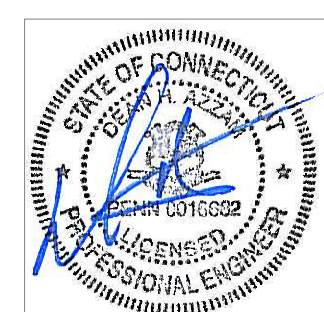
	1010 WETHERFIELD AVENUE SUITE 202 HARTFORD, CONNECTICUT 06114 TEL: 860-432-1200 FAX: 860-432-1592
SCALE AS NOTED	

City of Hartford, Connecticut Department of Public Works			Sheet Name ID-5 Project No. 6982
MISC. DETAILS			



- 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, REFILL, REPLACE AND REFINISH EXISTING EXTERIOR SURFACE TO MATCH EXISTING CONDITIONS.
- ③ EXISTING JUNCTION BOX TO BE REUSED. RECONNECT ELECTRICAL FEEDS TO EXISTING AERATOR.

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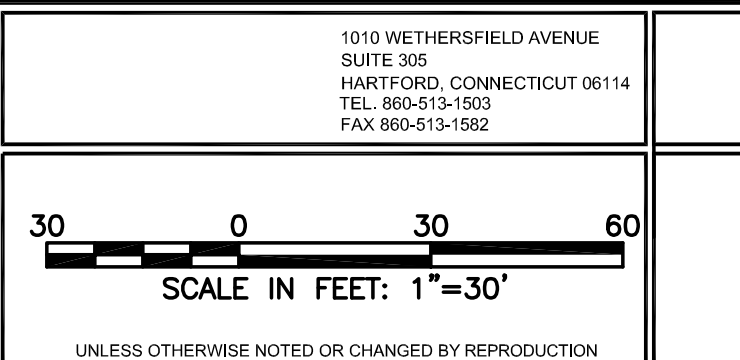
AZTECH ENGINEERS, INC.
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Revisions	By	Date	Notice

Sign-Offs	By	Date
Drawn	RMS	03/18
Checked	DHA	03/18
Recommended		
Approved		
Recorded		

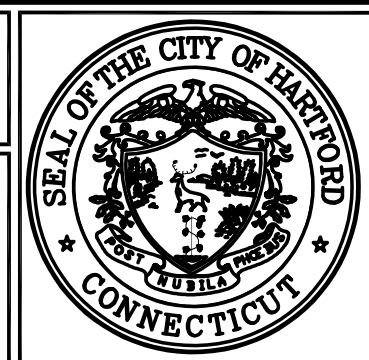
**GOODWIN PARK IRRIGATION
 & BOOSTER PUMP IMPROVEMENTS
 HARTFORD, CONNECTICUT 06103**

BETA Proj. No. 6982 DPW- August 6, 2021



City of Hartford, Connecticut
 Department of Public Works

ELECTRICAL PLAN



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Project No.
6982

