

ROCK VALLEY COLLEGE ATHLETIC FIELD IMPROVEMENTS



Know what's below.
Call before you dig.

3301 N MULFORD RD, ROCKFORD, IL 61114

UTILITY NOTE

THE LOCATIONS OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE, ARE SHOWN FOR CONTRACTOR INFORMATIONAL USE ONLY, AND ARE NOT TO BE REFERENCED FOR CONSTRUCTION PURPOSES. THE IMPLIED PRESENCE OR ABSENCE OF UTILITIES IS NOT TO BE CONSTRUED BY THE OWNER, ENGINEER, CONTRACTOR, OR SUBCONTRACTORS TO BE AN ACCURATE AND COMPLETE REPRESENTATION OF UTILITIES THAT MAY OR MAY NOT EXIST ON THE CONSTRUCTION SITE. BURIED AND ABOVE GROUND UTILITY LOCATION, IDENTIFICATION, AND MARKING ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. REROUTING, DISCONNECTION, PROTECTION, ETC. OF ANY UTILITY MUST BE COORDINATED BETWEEN THE CONTRACTOR, UTILITY COMPANY AND OWNER. SITE SAFETY, INCLUDING THE AVOIDANCE OF HAZARDS ASSOCIATED WITH BURIED AND ABOVEGROUND UTILITIES, REMAINS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

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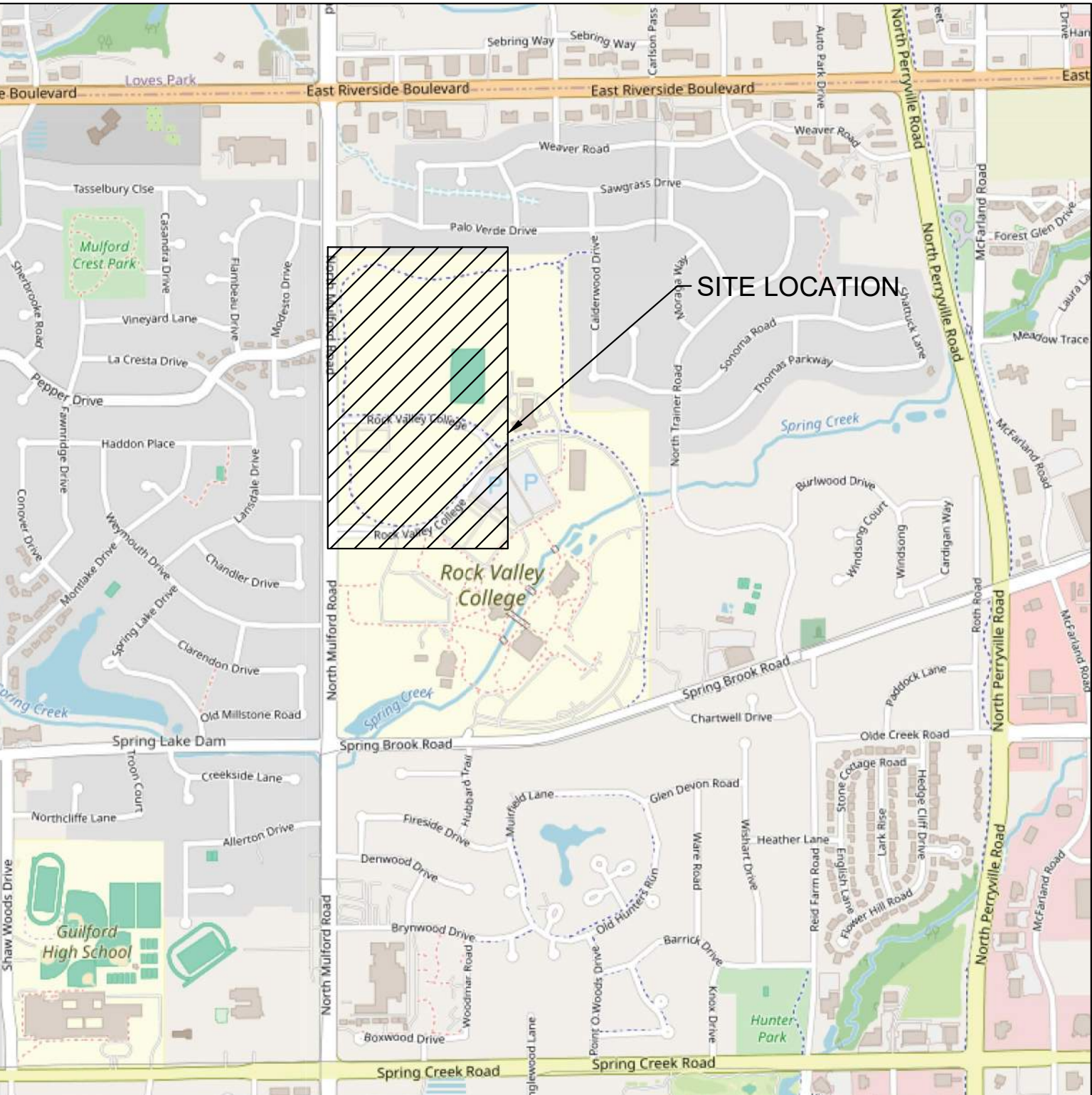
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VICINITY MAP
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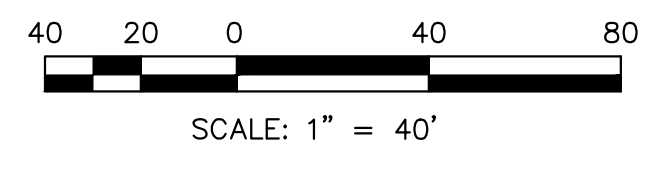
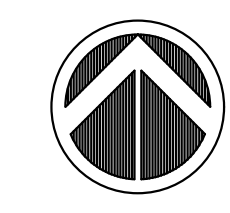
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IMEG CORP. HAS ADOPTED SAFETY PROCEDURES FOR ITS EMPLOYEES WHO PROVIDE PROFESSIONAL ENGINEERING AND SURVEYING SERVICES. A COPY OF THESE PROCEDURES IS AVAILABLE FROM THE SAFETY OFFICER. IMEG CORP. PERSONNEL ARE NOT TRAINED IN CONTRACTOR (CONSTRUCTION) SAFETY AND COMPLIANCE PROCEDURES. THE METHODS AND MEANS TO COMPLY WITH CONSTRUCTION SITE SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

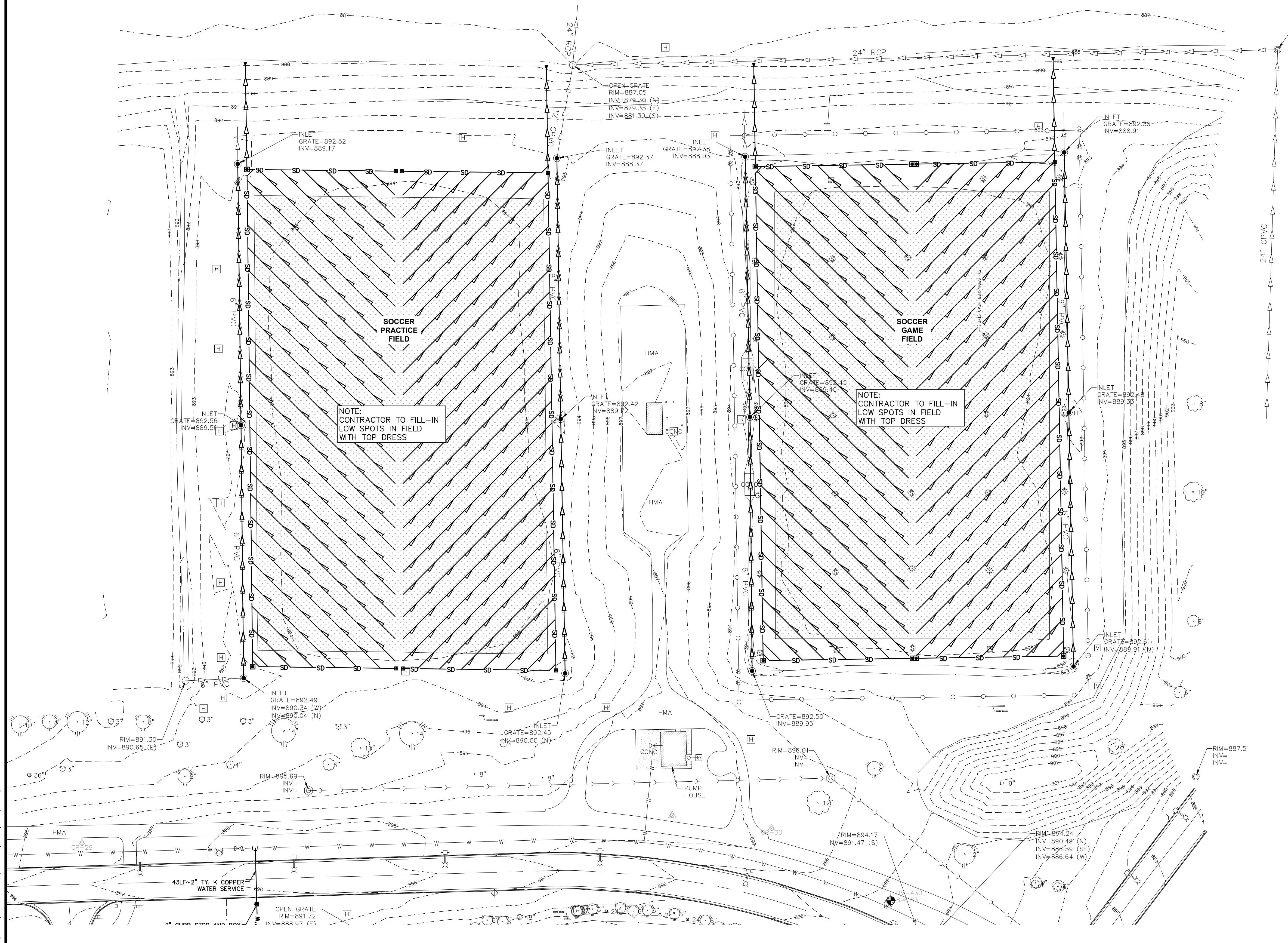
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- NOTE:
- REFER TO SHEETS C6 AND C8 FOR DETAILS OF SURFACE AND SUBSURFACE DRAINAGE SYSTEM IMPROVEMENTS.
 - REFER TO GENERAL NOTE 8 ON SHEET C2 FOR CONTRACTOR ACCESS/HAUL ROUTE RESTORATION REQUIREMENTS.



NOTE:
 CONTRACTOR TO FILL-IN
 LOW SPOTS IN FIELD
 WITH TOP DRESS

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 CONTRACTOR TO FILL-IN
 LOW SPOTS IN FIELD
 WITH TOP DRESS

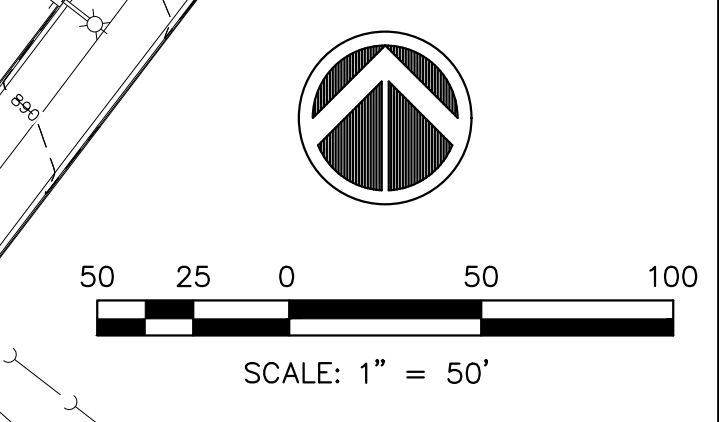
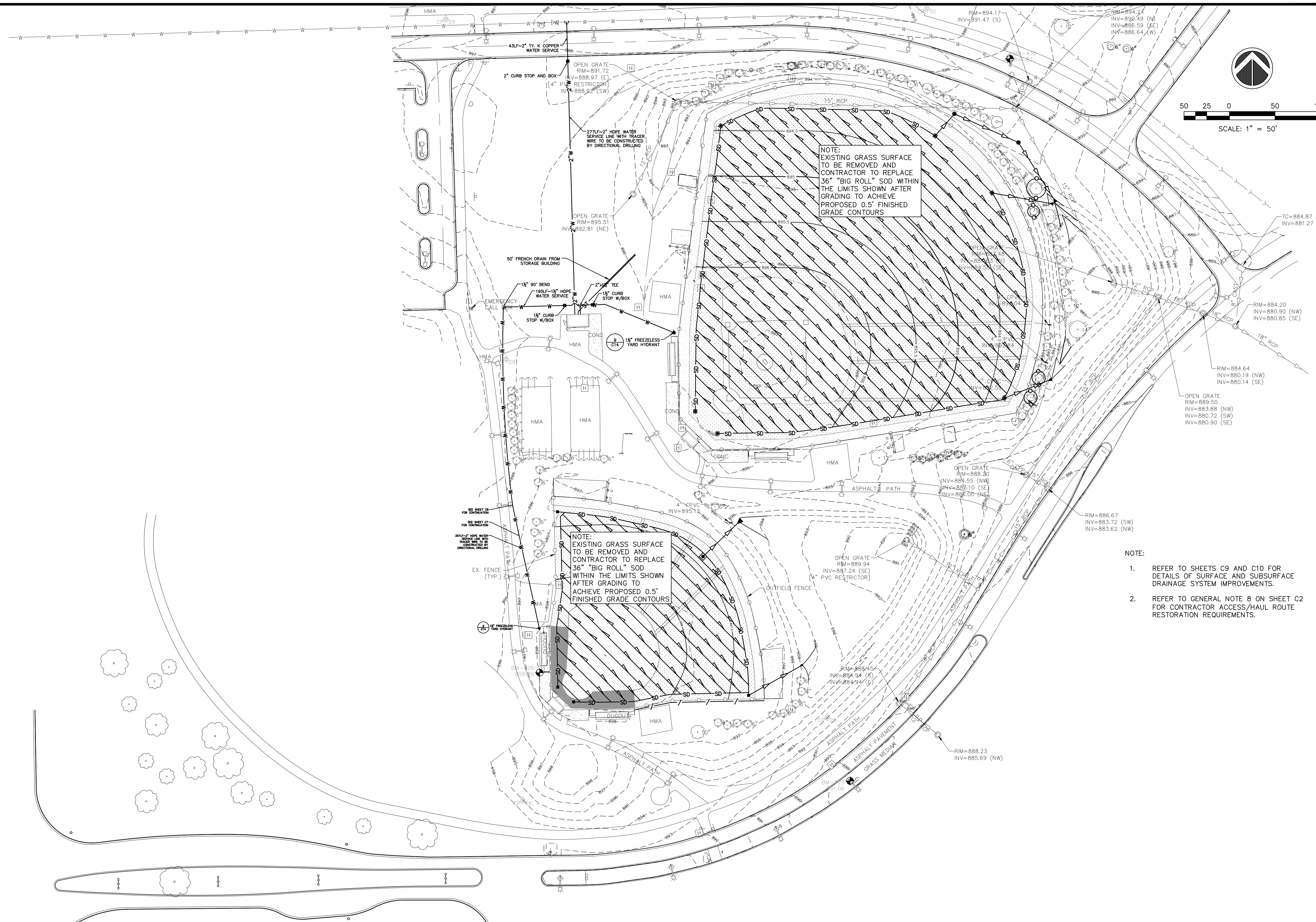
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**ROCK VALLEY COLLEGE ATHLETIC
 FIELD IMPROVEMENTS
 ROCKFORD, ILLINOIS
 OVERALL SITE PLAN -
 SOCCER FIELDS**

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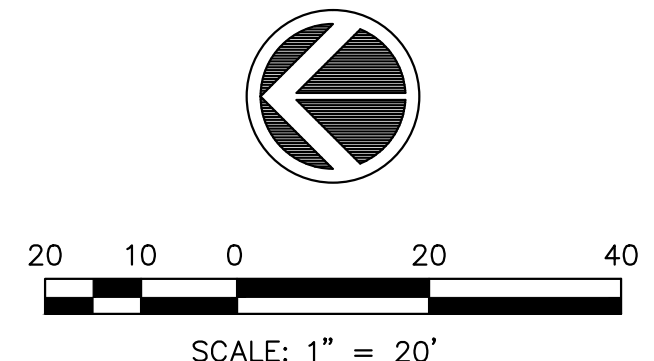
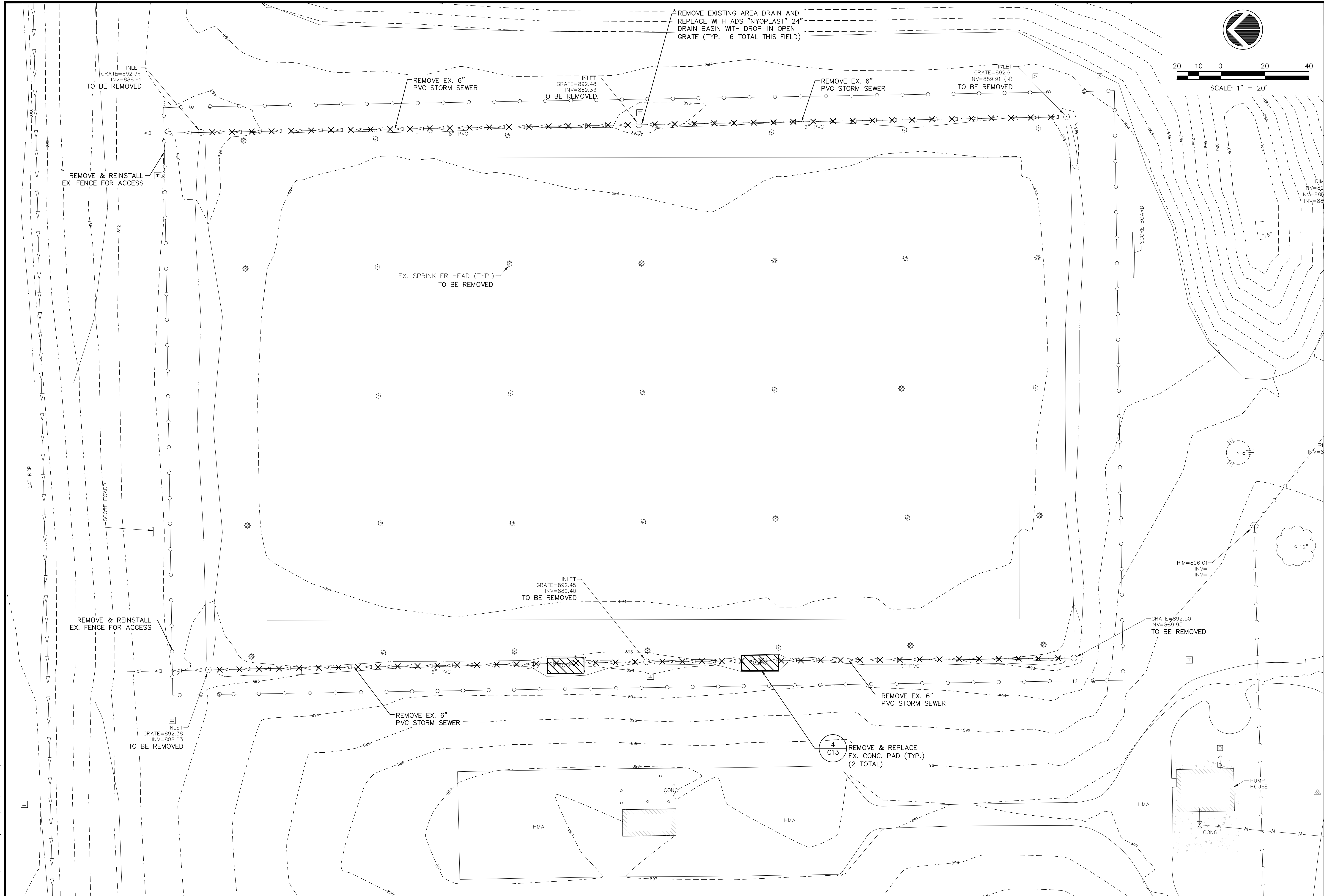
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**ROCK VALLEY COLLEGE ATHLETIC
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 ROCKFORD, ILLINOIS
 OVERALL SITE PLAN -
 SOFTBALL & BASEBALL FIELDS**

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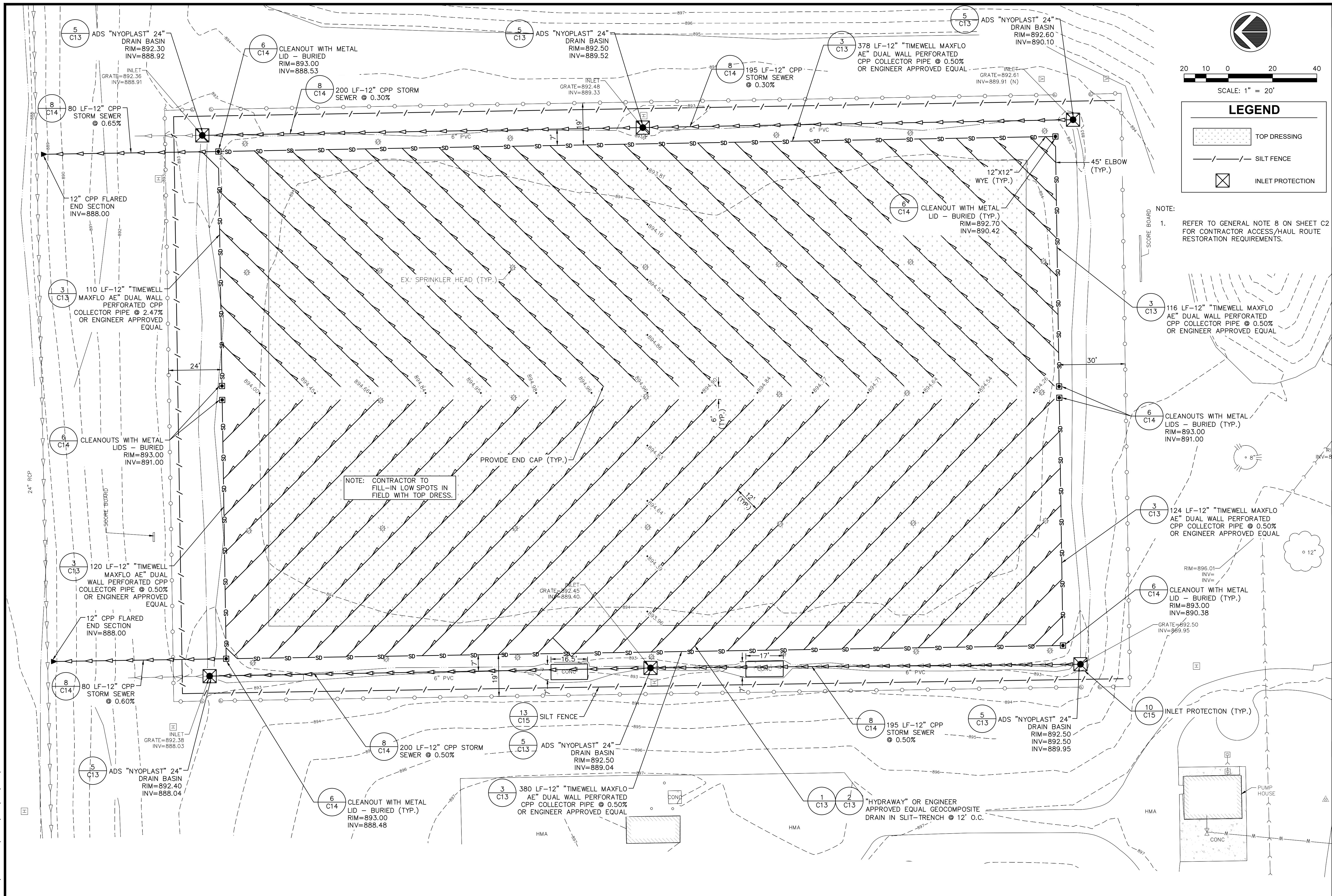
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 ROCKFORD, ILLINOIS
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LEGEND

- TOP DRESSING
- SILT FENCE
- INLET PROTECTION

NOTE:
 1. REFER TO GENERAL NOTE 8 ON SHEET C2 FOR CONTRACTOR ACCESS/HAUL ROUTE RESTORATION REQUIREMENTS.

NOTE: CONTRACTOR TO FILL-IN LOW SPOTS IN FIELD WITH TOP DRESS.

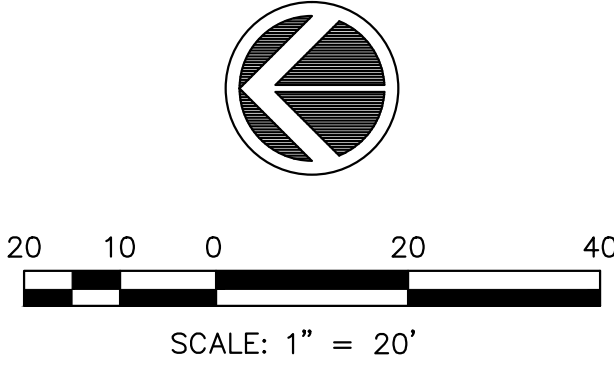
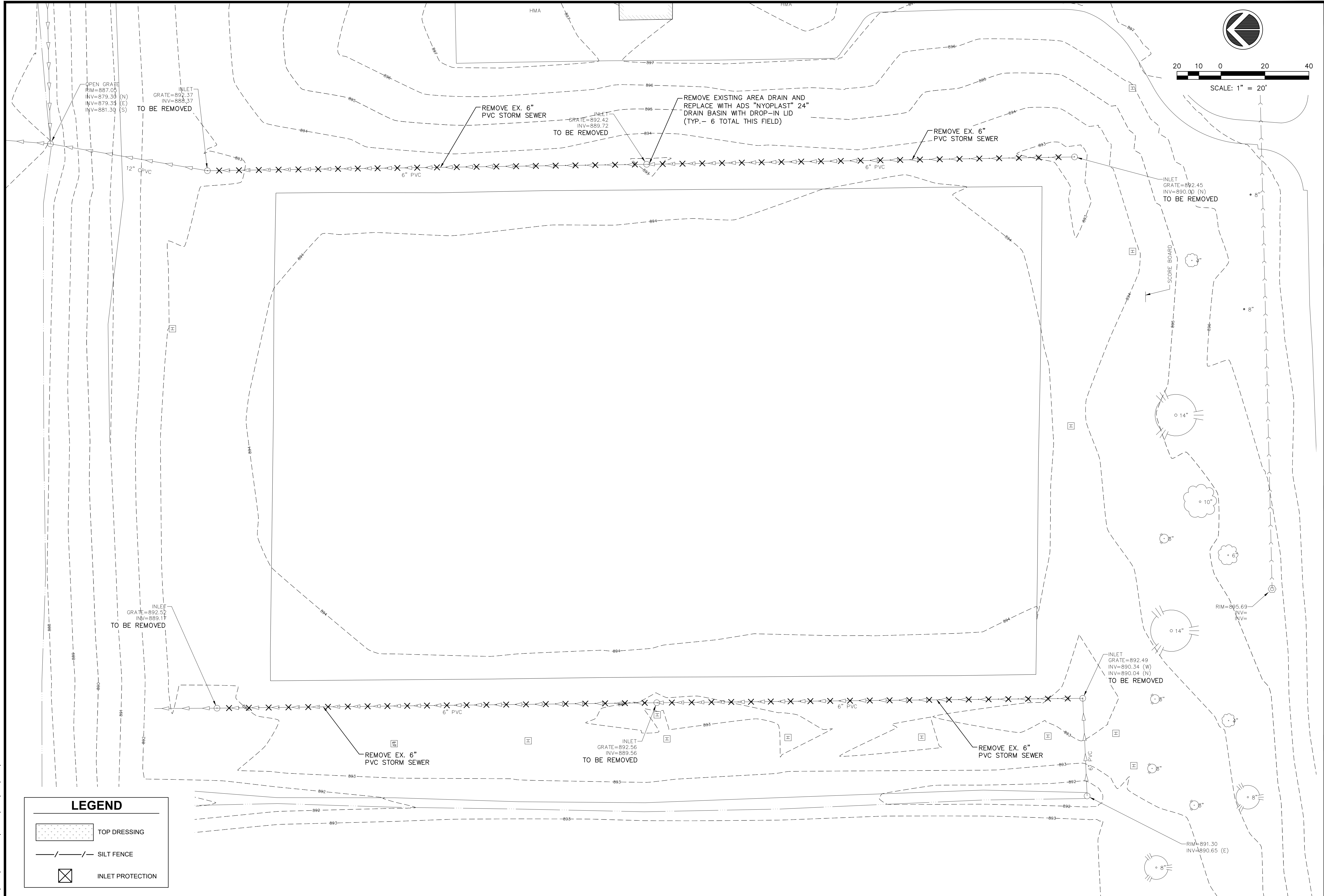
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**ROCK VALLEY COLLEGE ATHLETIC
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 ROCKFORD, ILLINOIS
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LEGEND

	TOP DRESSING
	SILT FENCE
	INLET PROTECTION

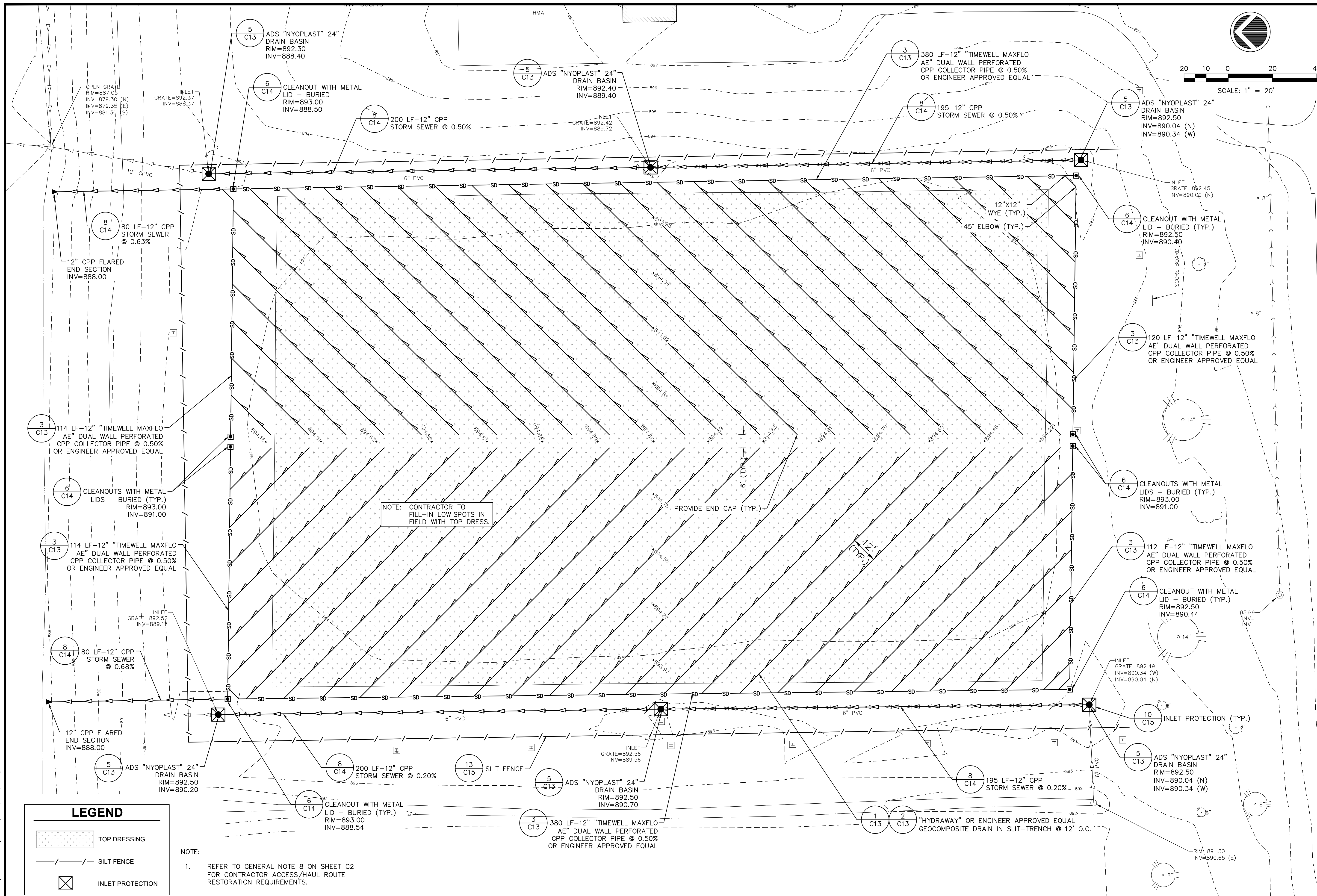
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**ROCK VALLEY COLLEGE ATHLETIC
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 ROCKFORD, ILLINOIS
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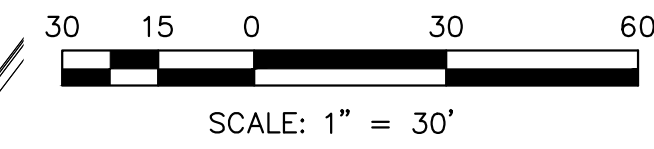
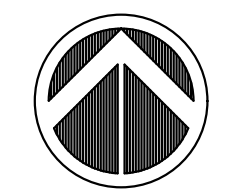
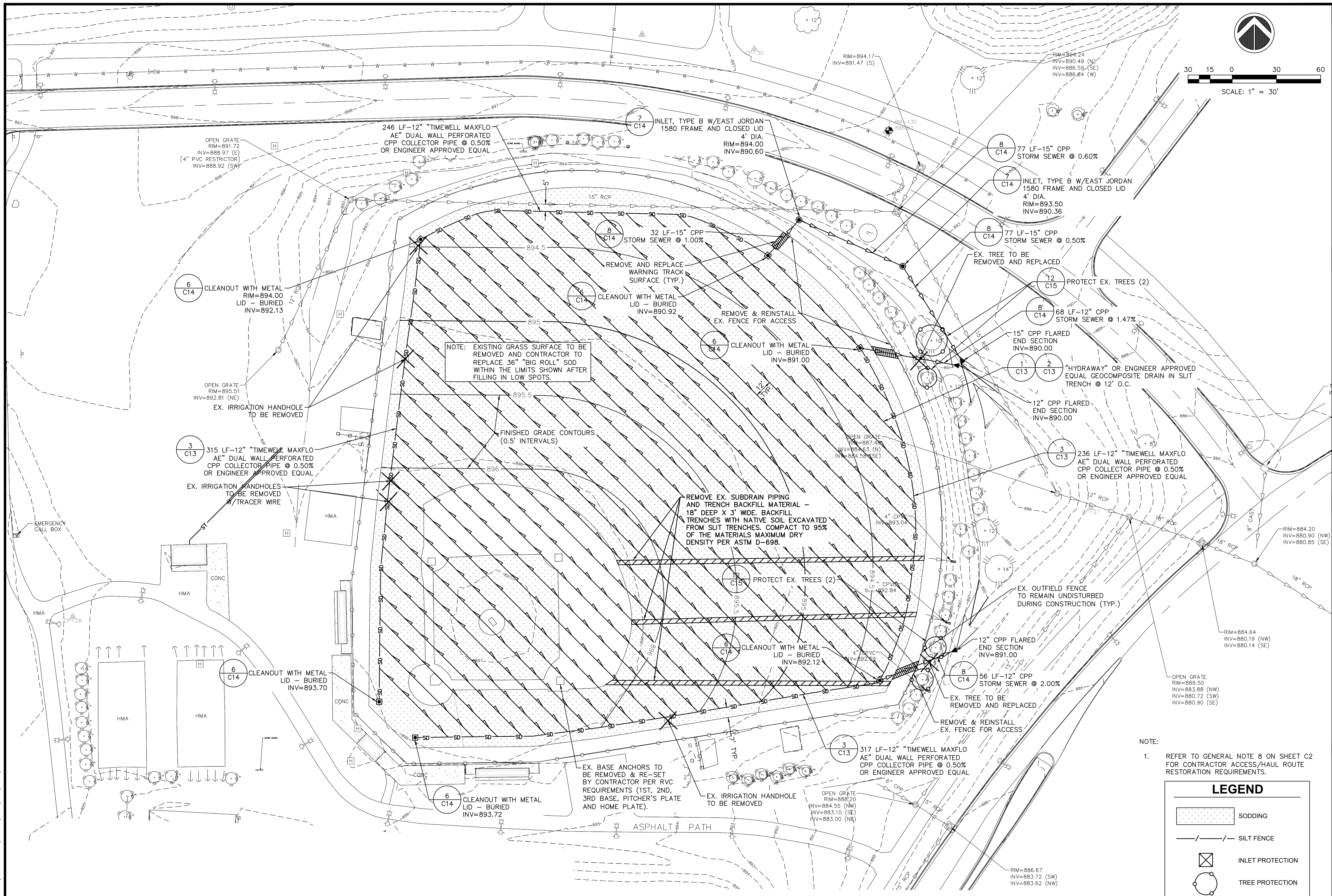
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**ROCK VALLEY COLLEGE ATHLETIC
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 ROCKFORD, ILLINOIS
 SOCCER PRACTICE FIELD - GRADING
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 BASEBALL FIELD - GRADING
 AND EROSION CONTROL PLAN**

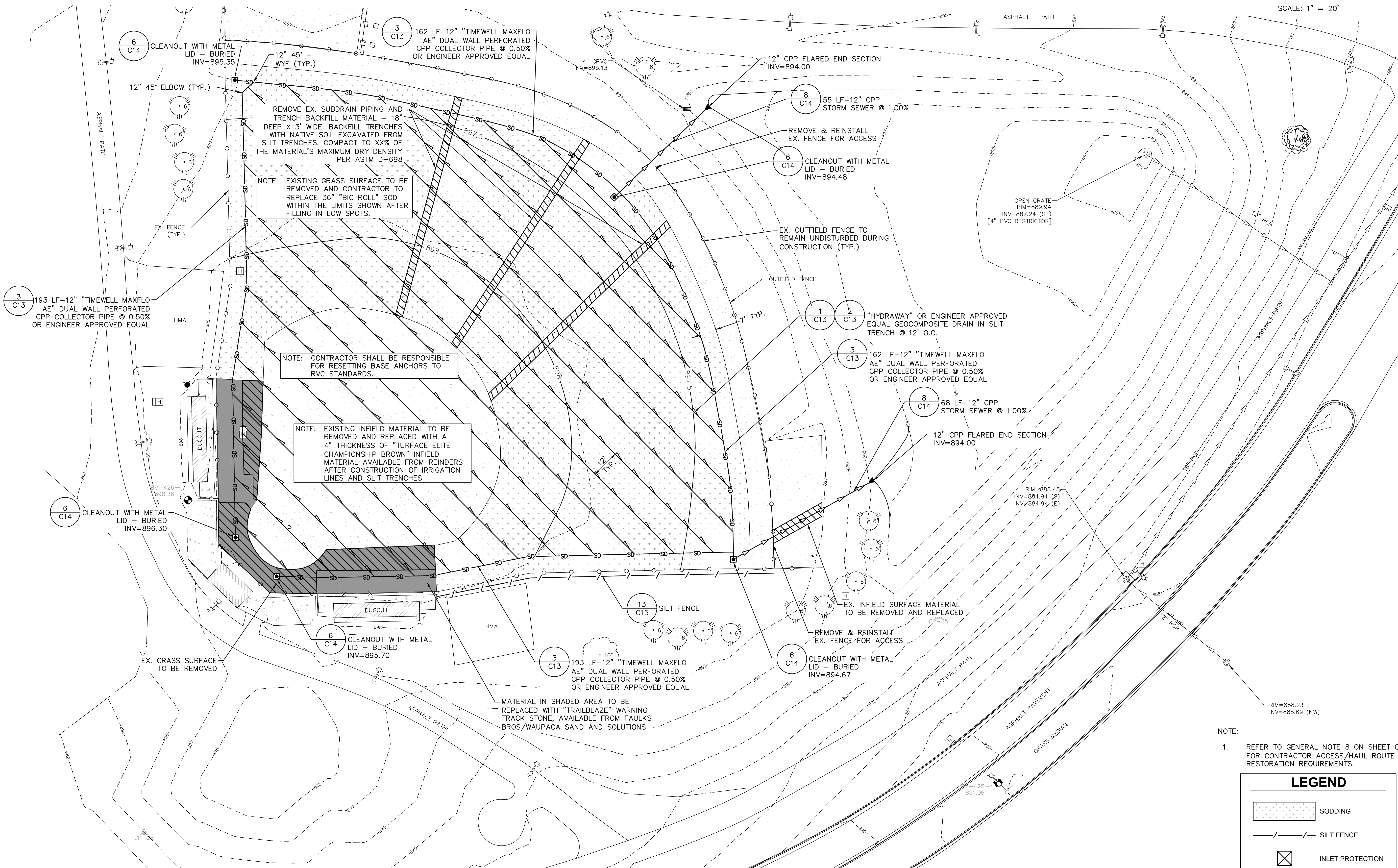
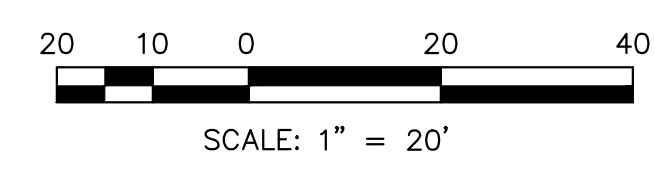
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NOTE:
 1. REFER TO GENERAL NOTE 8 ON SHEET C2 FOR CONTRACTOR ACCESS/HAUL ROUTE RESTORATION REQUIREMENTS.

LEGEND

- SODDING
- SILT FENCE
- INLET PROTECTION
- TREE PROTECTION

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 ROCKFORD, ILLINOIS
 SOFTBALL FIELD - GRADING
 AND EROSION CONTROL PLAN**

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- NOTE:
 1. REFER TO GENERAL NOTE 8 ON SHEET C2 FOR CONTRACTOR ACCESS/HAUL ROUTE RESTORATION REQUIREMENTS.

LEGEND

- SODDING
- SILT FENCE
- INLET PROTECTION

STORM WATER POLLUTION PREVENTION PLAN

1. THE FOLLOWING PLAN WAS ESTABLISHED AND INCLUDED IN THESE PLANS TO DIRECT THE CONTRACTOR IN THE PLACEMENT OF TEMPORARY EROSION CONTROL SYSTEMS AND TO PROVIDE A STORM WATER POLLUTION PREVENTION PLAN FOR COMPLIANCE UNDER NPDES.
2. THE PURPOSE OF THIS PLAN IS TO MINIMIZE EROSION WITHIN THE CONSTRUCTION SITE AND TO LIMIT SEDIMENTS FROM LEAVING THE CONSTRUCTION SITE BY UTILIZING PROPER TEMPORARY EROSION CONTROL SYSTEMS AND PROVIDING GROUND COVER WITHIN A REASONABLE AMOUNT OF TIME.
3. CERTAIN EROSION CONTROL FACILITIES SHALL BE PLACED BY THE CONTRACTOR AT THE BEGINNING OF CONSTRUCTION. OTHER ITEMS SHALL BE PLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER ON A CASE BY CASE SITUATION RESULTING FROM THE CONTRACTOR'S SEQUENCE OF ACTIVITIES, TIME OF YEAR, AND EXPECTED WEATHER CONDITIONS.
4. THE CONTRACTOR SHALL INSTALL PERMANENT EROSION CONTROL SYSTEMS AND SEEDING WITHIN A REASONABLE AMOUNT OF TIME: THEREFORE, REDUCING THE AMOUNT OF AREA BEING OPEN TO THE POSSIBILITY OF EROSION AND REDUCING THE AMOUNT OF TEMPORARY SEEDING. THE ENGINEER WILL DETERMINE IF TEMPORARY EROSION CONTROL SYSTEMS SHOWN IN THE PLAN CAN BE DELETED, THE SIZE OF THE PROPOSED DITCH CHECKS, THE PROPER METHOD OF INSTALLATION, AND IF ANY ADDITIONAL TEMPORARY EROSION CONTROL SYSTEMS SHALL BE ADDED WHICH ARE NOT INCLUDED IN THE PLANS. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN THE STANDARD 280001 OF THE PLANS.
5. IN ACCORDANCE WITH THE REQUIREMENTS OF THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NOTICES, RECORDS, INSPECTION, WEEKLY REPORTS AND DOCUMENTS TO BE FILED WITH THE IEPA AND ALSO KEPT ON SITE DURING AND AFTER CONSTRUCTION IN REFERENCE TO THE STORM WATER POLLUTION PREVENTION PLAN "NPDES" A COPY OF THIS PLAN WILL BE MADE AVAILABLE AS REQUIRED AT THE PRECONSTRUCTION MEETING AND/OR PRIOR TO THE BEGINNING OF CONSTRUCTION.
6. INSPECTIONS OF EROSION CONTROL SYSTEMS ARE REQUIRED WEEKLY AND AFTER EVERY RAINFALL EVENT WITH AN ACCUMULATED RAINFALL OF ONE HALF INCH (0.5 INCHES). INSPECTIONS REPORTS ARE TO BE KEPT ON FILE ON SITE AND SUBMITTED TO THE OWNER AFTER CONSTRUCTION IS COMPLETE.

NOTICE OF INTENT:

1. PRIOR TO INITIATING ANY SOIL-DISTURBING ACTIVITIES AT THE CONSTRUCTION SITE, THE CONTRACTOR MUST SUBMIT A PROPERLY COMPLETED NOTICE OF INTENT (NOI) FORM TO IEPA, FOLLOWING BY A 30-DAY REVIEW PERIOD. THE NOI FORM CANNOT BE SUBMITTED TO IEPA UNTIL THE CONTRACTOR HAS BEEN IDENTIFIED BY THE OWNER. THE CITY OF ROCKFORD SUBMITTED THE NOI PRIOR TO CONTRACTOR BEING IDENTIFIED. THE CONTRACTOR SHALL WORK WITH THE CITY TO UPDATE THE NOI WITH THE CONTRACTOR INFORMATION.

SITE DESCRIPTION:

1. THE PROJECT CONSISTS OF CONSTRUCTING NEW IRRIGATION SYSTEMS AND SLIT-TRENCH SUBSURFACE DRAINAGE SYSTEMS FOR THE EXISTING NATURAL GRASS BASEBALL, SOFTBALL, SOCCER PRACTICE AND SOCCER GAME FIELDS ON THE ROCK VALLEY COLLEGE CAMPUS. RELATED IMPROVEMENTS INCLUDE CONSTRUCTION OF A NEW VARIABLE-SPEED IRRIGATION PUMP AND IRRIGATION IMPROVEMENTS TO THE GRASS MEDIAN IN THE ROCK VALLEY COLLEGE MAIN DRIVEWAY ENTRANCE..
2. THE TOTAL AREA OF CONSTRUCTION SITE IS ESTIMATED TO BE 12 ACRES OF PROPERTY OF WHICH 12 ACRES WILL BE DISTURBED BY CONSTRUCTION OF IRRIGATION SYSTEMS, SUBSURFACE DRAINAGE SYSTEMS, GRADING AND OTHER ACTIVITIES.
3. THE ESTIMATED RUNOFF COEFFICIENT (C) FOR THE ATHLETIC FIELDS AFTER DEVELOPMENT IS 0.80.
4. THE FOLLOWING ASSISTED IN DEVELOPING THE EROSION CONTROL PLAN AS REFERENCED DOCUMENTS:
 - 4.1. USGS DRAINAGE MAPS
 - 4.2. PROJECT PLAN DOCUMENTS
5. DRAINAGE TRIBUTARIES RECEIVING WATER FROM CONSTRUCTION SITE IS SPRING CREEK.

SEQUENCE OF CONSTRUCTION:

1. INSTALL PERIMETER EROSION BARRIER AND INLET PROTECTION.
2. CONSTRUCT IRRIGATION SYSTEM.
3. CONSTRUCT SLIT-TRENCH SUBDRAINAGE SYSTEM AND DRAINAGE SYSTEM IMPROVEMENTS.
4. REMOVE GRASS SURFACE ON BASEBALL AND SOFTBALL FIELDS AND FINE GRADE TO SUBGRADE.
5. PLACE TOPDRESSING ON SOCCER FIELDS AND PLACE SOD ON BASEBALL AND SOFTBALL FIELDS.
6. AFTER ALL DISTURBED AREAS ARE STABILIZED REMOVE ALL EROSION CONTROL MEASURES.

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES:

1. TEMPORARY STABILIZATION – TOPSOIL STOCK PILES AND DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITY TEMPORARY CEASES FOR AT LEAST 21 DAYS WILL BE STABILIZED WITH TEMPORARY SEED AND MULCH NO LATER THAN 14 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA. THE TEMPORARY SEED SHALL BE RYE (GRAIN) APPLIED AT THE RATE OF 120 POUNDS PER ACRE. PRIOR TO SEEDING, 2,000 POUNDS OF GROUND AGRICULTURAL LIMESTONE AND 1,000 POUNDS OF 10-10-10 FERTILIZER SHALL BE APPLIED TO EACH ACRE TO BE STABILIZED. AFTER SEEDING, EACH AREA SHALL BE MULCHED WITH 4,000 POUND PER ACRE OF STRAW. THE STRAW MULCH IS TO BE TACKED INTO PLACE BY A DISK WITH BLADES SET NEARLY STRAIGHT. A CONSTRUCTION ACCESS DRIVE UTILIZING THE PROPOSED LOCATION OF THE PARKING LOT SHALL BE CONSTRUCTED OF STONE SUB-BASE TO PROPOSED GRADE USING THE PROPOSED GRADATION OF BASE ROCK.

CONTROLS - EROSION CONTROLS AND SEDIMENT CONTROL PROCEDURES (CONT):

2. PERMANENT STABILIZATION – DISTURBED PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES PERMANENTLY CEASE SHALL BE STABILIZED WITH PERMANENT SEED NO LATER THE 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. THE PERMANENT SEED MIX SHALL BE CONSISTENT WITH THE PARKWAY RESTORATION SPECIAL PROVISION FOR THIS PROJECT.
3. STORM WATER DRAINAGE WILL BE PROVIDED BY CURB AND GUTTER, STORM SEWER AND CATCH BASINS, FOR THE DEVELOPED AREAS. THE AREAS WHICH ARE NOT DEVELOPED WILL BE GRADED AT LESS THAN 3:1 AND HAVE PERMANENT SEEDING OR PLANTINGS.

OTHER CONTROLS:

1. WASTE MATERIAL
ALL WASTE WILL BE COLLECTED AND STORED IN A SECURELY LIDED METAL DUMPSTER. THE DUMPSTER WILL MEET ALL LOCAL AND ANY STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN THE DUMPSTER. NO CONSTRUCTION WASTE MATERIALS WILL BE BURIED ONSITE. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL.
2. HAZARDOUS WASTE
ALL HAZARDOUS WASTE MATERIALS WILL BE DISPOSED OF IN THE MANNER SPECIFIED BY LOCAL OR STATE REGULATION OR BY THE MANUFACTURER. SITE PERSONNEL WILL BE INSTRUCTED IN THESE PRACTICES AND THE SITE SUPERINTENDENT, THE INDIVIDUAL WHO MANAGES DAY-TO-DAY SITE OPERATIONS, WILL BE RESPONSIBLE FOR SEEING THAT THESE PRACTICES ARE FOLLOWED.
3. SANITARY WASTE
ALL SANITARY WASTE WILL BE COLLECTED FROM THE PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK OR AS REQUIRED BY THE LOCAL REGULATIONS.

TIMING OF CONTROL/MEASURES:

AS INDICATED IN THE SEQUENCE OF MAJOR ACTIVITIES, THE PERIMETER EROSION BARRIER AND INLET PROTECTION WILL BE CONSTRUCTED PRIOR TO CLEARING OR GRADING OF ANY OTHER PORTIONS OF THE SITE. AREAS WHERE CONSTRUCTION ACTIVITY TEMPORARILY CEASES FOR MORE THAN 21 DAYS WILL BE STABILIZED WITH A TEMPORARY SEED AND MULCH WITHIN 14 DAYS OF THE LAST DISTURBANCE. ONCE CONSTRUCTION ACTIVITY CEASES PERMANENTLY IN AN AREA, THAT AREA WILL BE STABILIZED WITH PERMANENT SEED AND MULCH. AFTER THE ENTIRE SITE IS STABILIZED, THE PERIMETER EROSION BARRIER AND INLET PROTECTION MAY BE REMOVED.

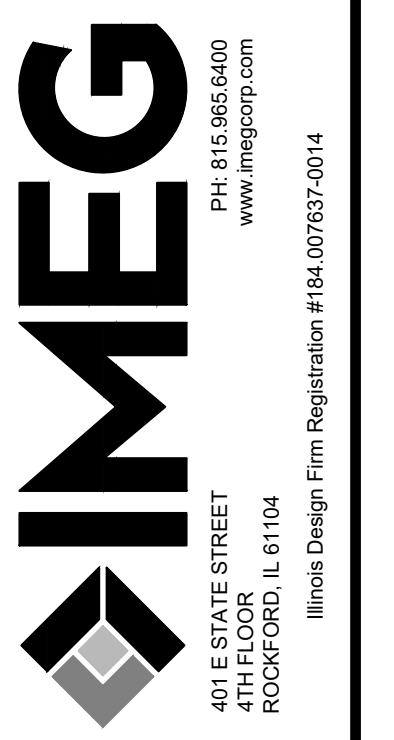
CERTIFICATION OF COMPLIANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS:

THE STORM WATER POLLUTION PREVENTION PLAN REFLECTS GUIDELINES FOR DEVELOPING POLLUTION PREVENTION PLANS AND BEST MANAGEMENT PRACTICES PUBLISHED BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY OFFICE OF WATER.

MAINTENANCE/INSPECTION PROCEDURES:

1. THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS:
 - A. LESS THAN ONE HALF OF THE SITE WILL BE DENUDED AT ONE TIME.
 - B. ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONE EACH WEEK AND FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.
 - C. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
 - D. BUILT UP SEDIMENT WILL BE REMOVED FROM PERIMETER EROSION BARRIER WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.
 - E. PERIMETER EROSION BARRIER WILL BE INSPECTED FOR DEPTH OF SEDIMENT AND TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.
 - F. THE SEDIMENT BASIN, IF USED, WILL BE INSPECTED FOR DEPTH OF SEDIMENT. BUILT UP SEDIMENT WILL BE REMOVED WHEN IT REACHES 10 PERCENT OF THE DESIGN CAPACITY OR AT THE END OF THE JOB.
 - G. DIVERSION DIKE IF USED WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
 - H. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
 - I. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION.
 - J. THE SITE SUPERINTENDENT WILL SELECT THREE INDIVIDUALS WHO WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
 - K. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES WILL RECEIVE TRAINING FROM THE SITE SUPERINTENDENT. THEY WILL BE TRAINED IN ALL THE INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER.
2. IT IS EXPECTED THAT THE FOLLOWING NON-STORM WATER DISCHARGES WILL OCCUR FROM THE SITE DURING THE CONSTRUCTION PERIOD:
 - A. PAVEMENT WASH WATERS (WHERE NO SPILLS OR LEAKS OF TOXIC OR HAZARDOUS MATERIALS HAVE OCCURRED.

No.	REVISIONS DESCRIPTION	DATE



**ROCK VALLEY COLLEGE ATHLETIC
FIELD IMPROVEMENTS
ROCKFORD, ILLINOIS
STORM WATER POLLUTION
PREVENTION PLAN**

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MAINTENANCE/INSPECTION PROCEDURES (CONT):

- ALL NON-STORM WATER DISCHARGES WILL BE FILTERED THROUGH PERIMETER PERIMETER EROSION BARRIER BEFORE DISCHARGING INTO THE STORM SEWER.

INVENTORY FOR POLLUTION PREVENTION PLAN:

- CONCRETE
- DETERGENTS
- PAINTS (ENAMEL AND LATEX)
- METAL STUDS
- FERTILIZERS
- PETROLEUM BASED PRODUCTS
- CLEANINGS SOLVENTS
- WOOD
- MASONRY BLOCK

SPILL PREVENTION:

- THE FOLLOWING ARE THE MATERIAL MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF.
- THE FOLLOWING GOOD HOUSEKEEPING PRACTICES WILL BE FOLLOWED ONSITE DURING THE CONSTRUCTION PROJECT.
 - AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THIS JOB.
 - ALL MATERIALS STORED ONSITE WILL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR APPROPRIATE CONTAINERS AND IF POSSIBLE, UNDER A ROOF OR OTHER ENCLOSURE.
 - PRODUCTS WILL BE KEPT IN THE ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL.
 - SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
 - WHENEVER POSSIBLE, ALL OF A PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER.
 - MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
 - THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS ONSITE.
- HAZARDOUS PRODUCTS: THESE PRACTICES ARE USED TO REDUCE THE RISKS ASSOCIATED WITH HAZARDOUS MATERIALS.
 - PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS UNLESS THEY ARE NOT RESEALABLE.
 - ORIGINAL LABELS AND MATERIALS SAFETY DATA WILL BE RETAINED; THEY CONTAIN IMPORTANT PRODUCT INFORMATION.
 - IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS' OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.
- PETROLEUM PRODUCTS: ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE. PETROLEUM PRODUCTS WILL BE STORED IN TIGHTLY SEALED CONTAINERS WHICH ARE CLEARLY LABELED. ANY ASPHALT SUBSTANCES USED ONSITE WILL BE APPLIED ACCORDING TO THE MANUFACTURERS' RECOMMENDATIONS.
- FERTILIZERS: FERTILIZER USED WILL BE APPLIED ONLY IN THE MINIMUM AMOUNTS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZERS WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. STORAGE WILL BE IN A COVERED SHED. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- PAINTS: ALL CONTAINERS WILL BE TIGHTLY SEALED AND STORED WHEN NOT REQUIRED FOR USE. EXCESS PAINT WILL NOT BE DISCHARGED THE STORM SEWER SYSTEM BUT WILL BE PROPERLY DISPOSED OF ACCORDING TO MANUFACTURERS' INSTRUCTIONS OR STATE OR LOCAL REGULATIONS.
- CONCRETE TRUCKS: CONCRETE TRUCKS WILL NOT BE ALLOWED TO WASH OUT OR DISCHARGE SURPLUS CONCRETE OR DRUM WASH WATER ON THE SITE, EXCEPT IN DESIGNATED CONCRETE TRUCK WASHOUT AREAS, USING AN APPROVED CONCRETE TRUCK WASHOUT FACILITY.
- IN ADDITION TO THE GOOD HOUSEKEEPING AND MATERIAL MANAGEMENT PRACTICES DISCUSSED IN THE PREVIOUS SECTIONS OF THIS PLAN, THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP.
 - MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE CLEARLY POSTED AND SITE PERSONNEL WILL BE MADE AWARE OF THE PROCEDURES AND THE LOCATION OF THE INFORMATION AND CLEANUP SUPPLIES.
 - MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP WILL BE KEPT IN THE MATERIAL STORAGE AREA ONSITE. EQUIPMENT AND MATERIALS WILL INCLUDE BUT NOT BE LIMITED TO BROOMS, DUST PANS, MOPS, RAGS, GLOVES, GOGGLES, KITTY LITTER, SAND, SAWDUST, AND PLASTIC AND METAL TRASH CONTAINERS SPECIFICALLY FOR THIS PURPOSE.
 - ALL SPILLS WILL BE CLEANED UP IMMEDIATE AFTER DISCOVERY.
 - THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.

SPILL PREVENTION (CONT):

- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE STATE OR LOCAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.
- THE SITE SUPERINTENDENT RESPONSIBLE FOR THE DAY-TO-DAY SITE OPERATIONS, WILL BE THE SPILL PREVENTION AND CLEANUP COORDINATOR. HE WILL DESIGNATE AT LEAST THREE OTHER PERSONNEL WHO WILL RECEIVE SPILL PREVENTION AND CLEANUP TRAINING. THESE INDIVIDUALS WILL EACH BECOME RESPONSIBLE FOR A PARTICULAR PHASE OF PREVENTION AND CLEANUP. THE NAMES OF RESPONSIBLE SPILL PERSONNEL WILL BE POSTED IN THE MATERIAL STORAGE AREA AND IN THE OFFICE TRAILER ONSITE.

CERTIFICATION STATEMENT:

THE FOLLOWING STATEMENT SHALL BE SIGNED PRIOR TO ANY WORK AUTHORIZED BY THE NPDES PERMIT NO. ILR10 IS PERFORMED AT THE SITE. THE UNDERSIGNED IS RESPONSIBLE FOR IMPLEMENTATION OF ALL MEASURES IDENTIFIED ON THIS PLAN.

CERTIFICATONS AND NOTIFICATIONS:

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT ELIMINATION SYSTEM (NPDES) PERMIT (ILR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION.

PRIME CONTRACTOR'S SIGNATURE:

NAME: _____
 TITLE: _____
 ADDRESS: _____
 SIGNATURE: _____ DATE: _____

SUBCONTRACTOR'S SIGNATURE:

NAME: _____
 TITLE: _____
 ADDRESS: _____
 SIGNATURE: _____ DATE: _____

SUBCONTRACTOR'S SIGNATURE:

NAME: _____
 TITLE: _____
 ADDRESS: _____
 SIGNATURE: _____ DATE: _____

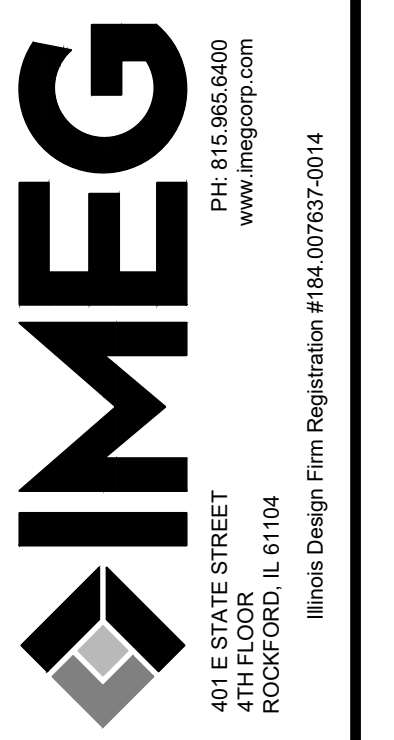
OWNER'S CERTIFICATION:

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHERED AND EVALUATED THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

OWNER'S SIGNATURE:

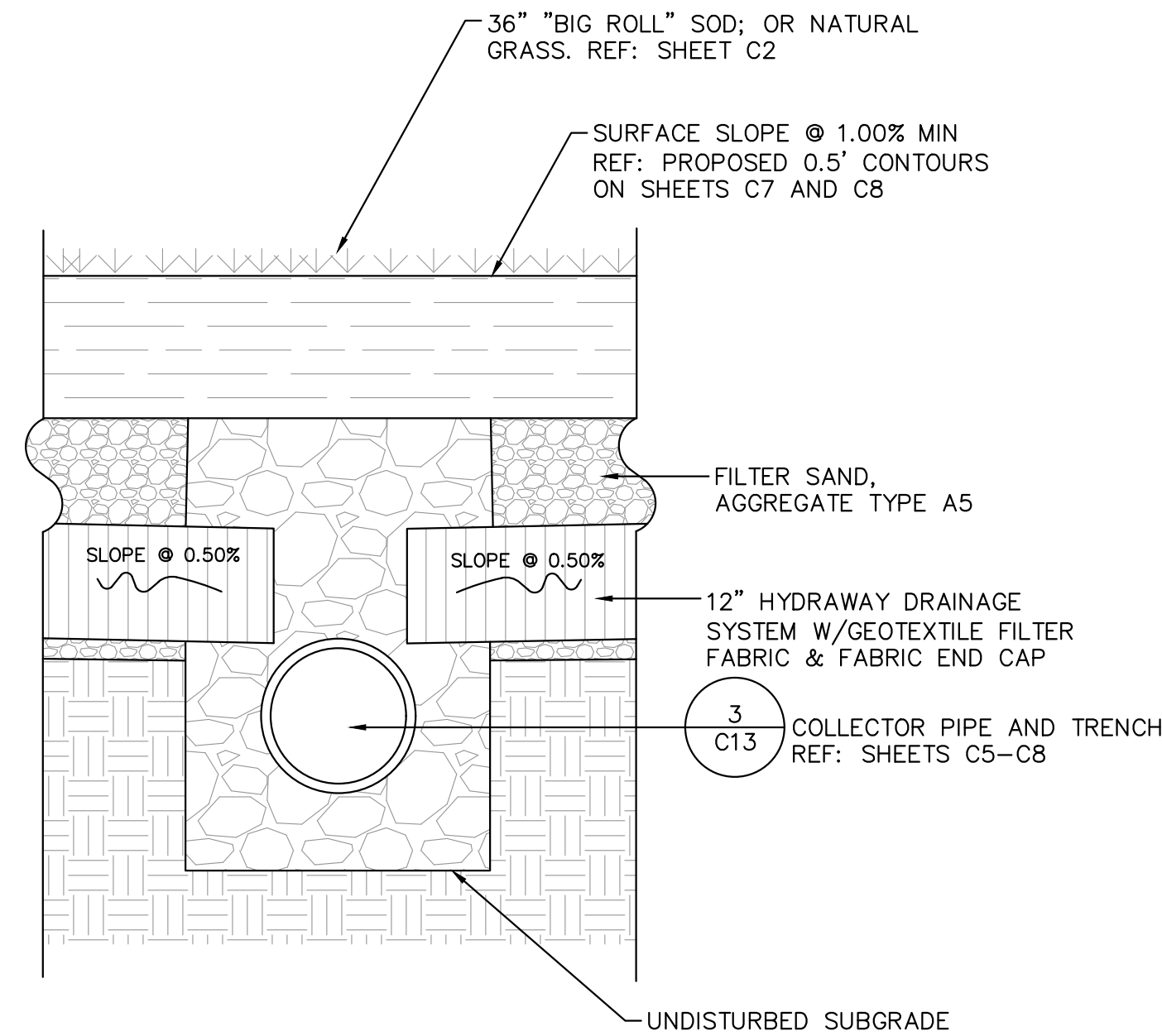
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 TITLE: _____
 ADDRESS: _____
 SIGNATURE: _____ DATE: _____

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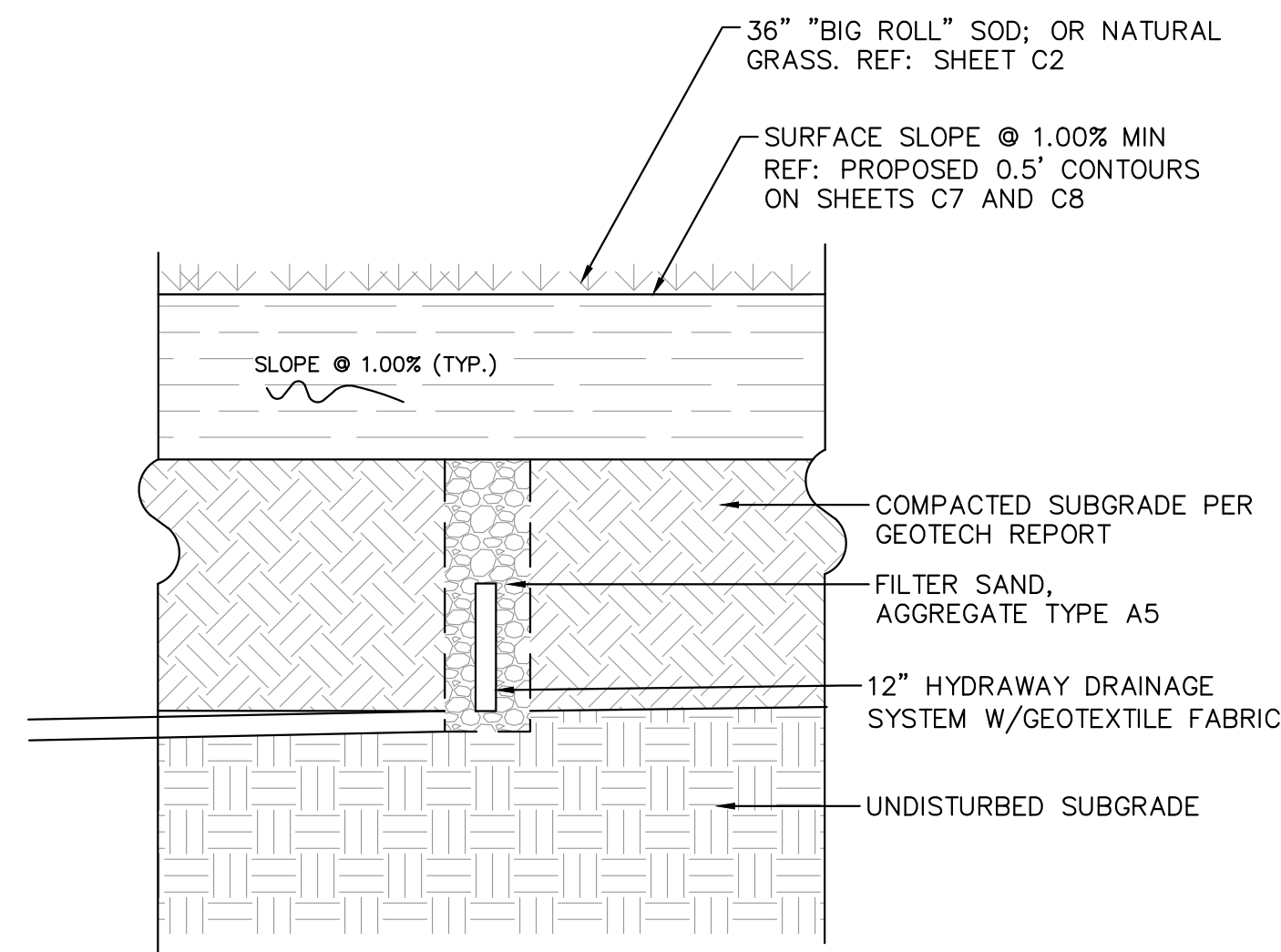


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 FIELD IMPROVEMENTS
 ROCKFORD, ILLINOIS
 STORM WATER POLLUTION
 PREVENTION PLAN**

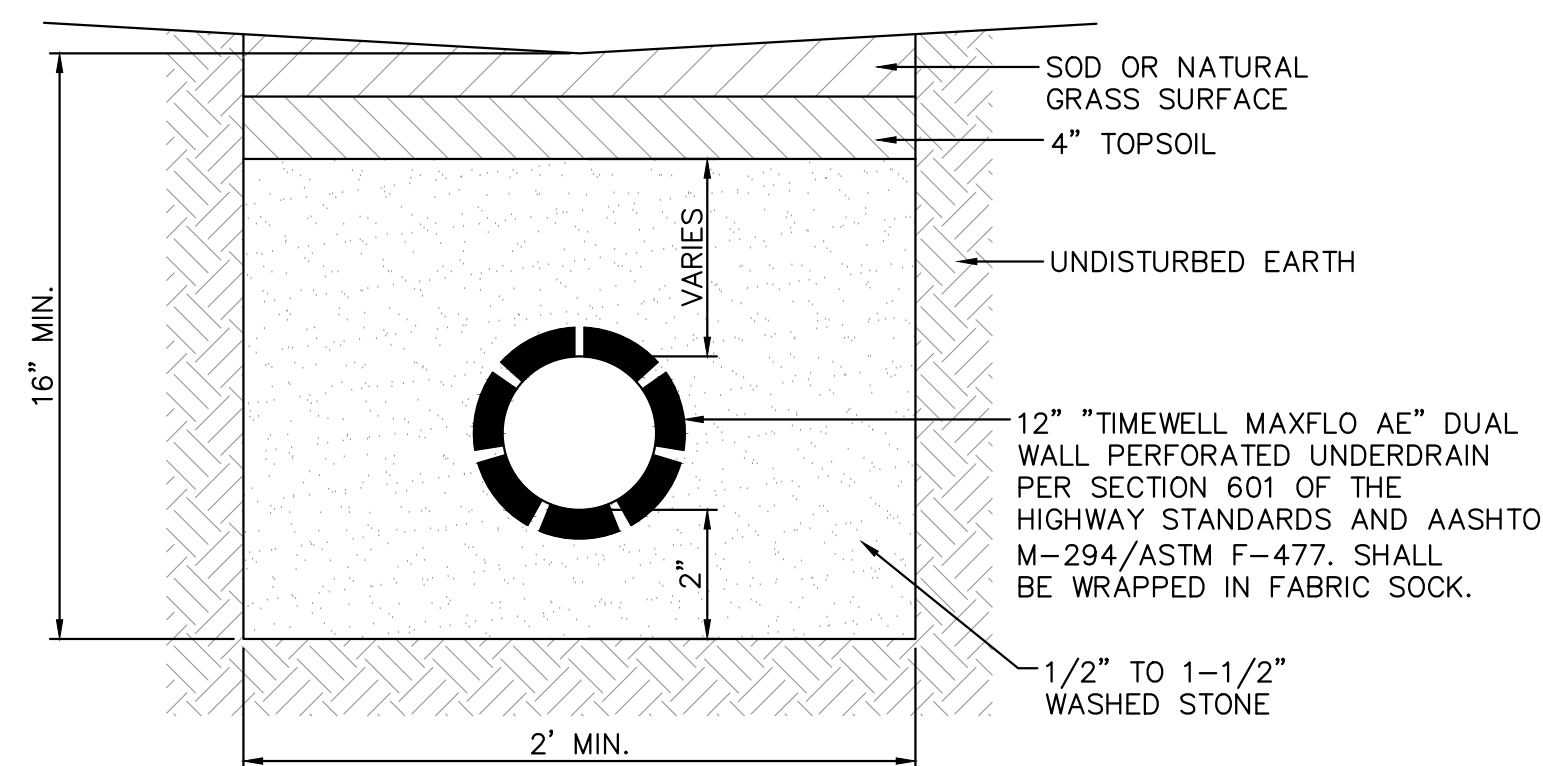
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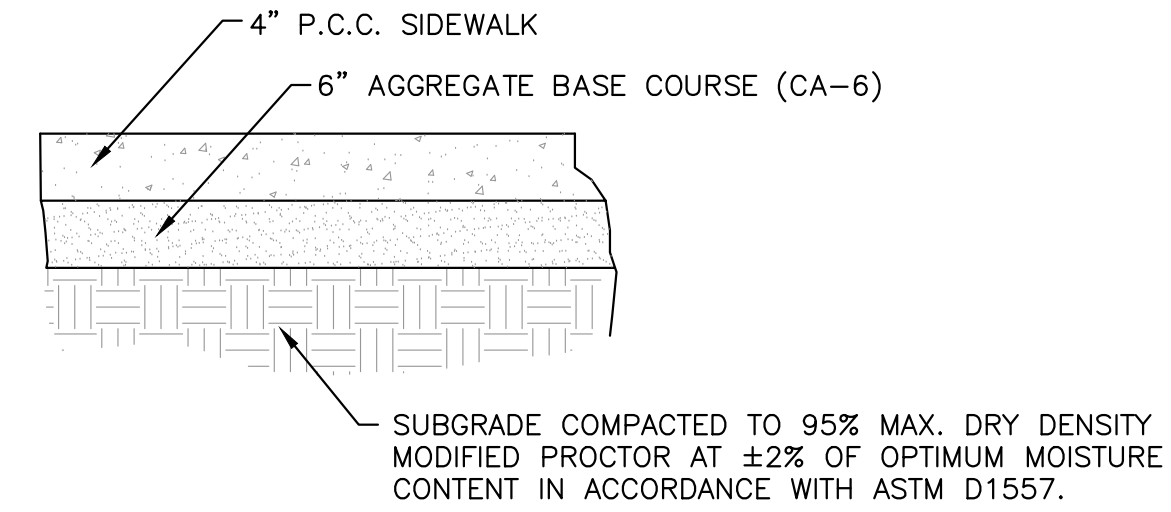
1 DRAINAGE TERMINATION AT SOD/NATURAL GRASS
NOT TO SCALE



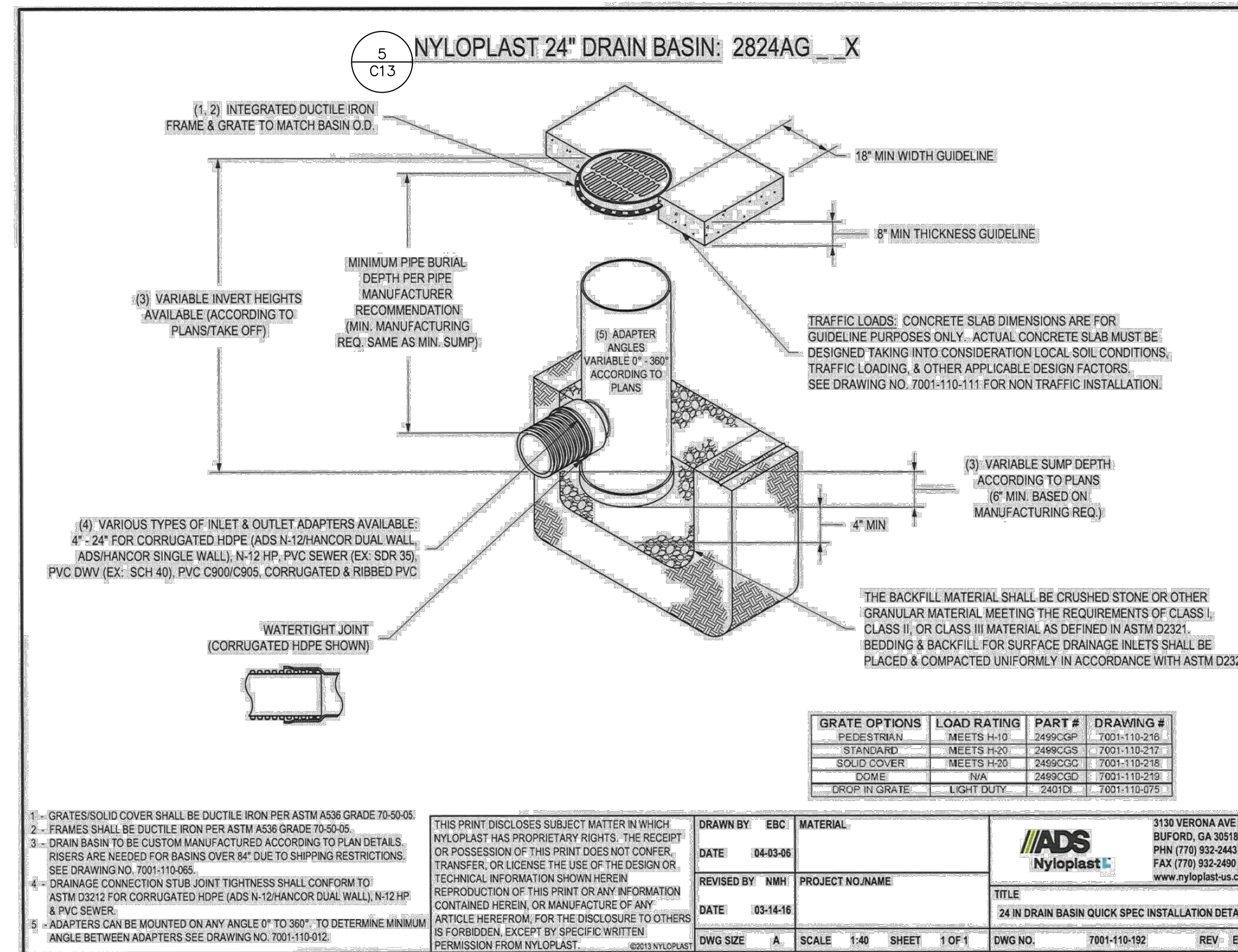
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NOT TO SCALE



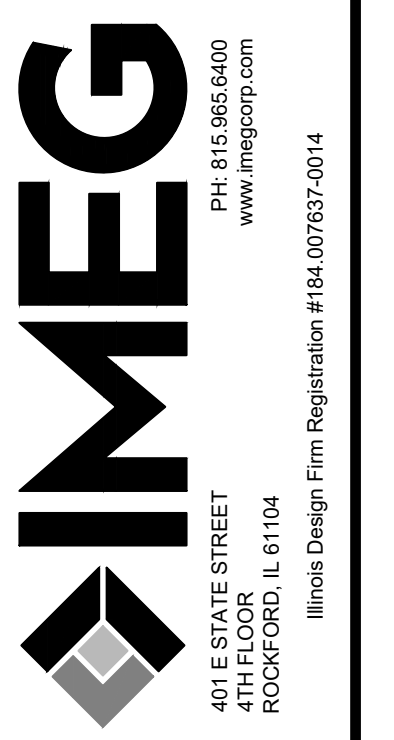
3 COLLECTOR PIPE DETAIL
NOT TO SCALE



4 CONCRETE SIDEWALK
NOT TO SCALE



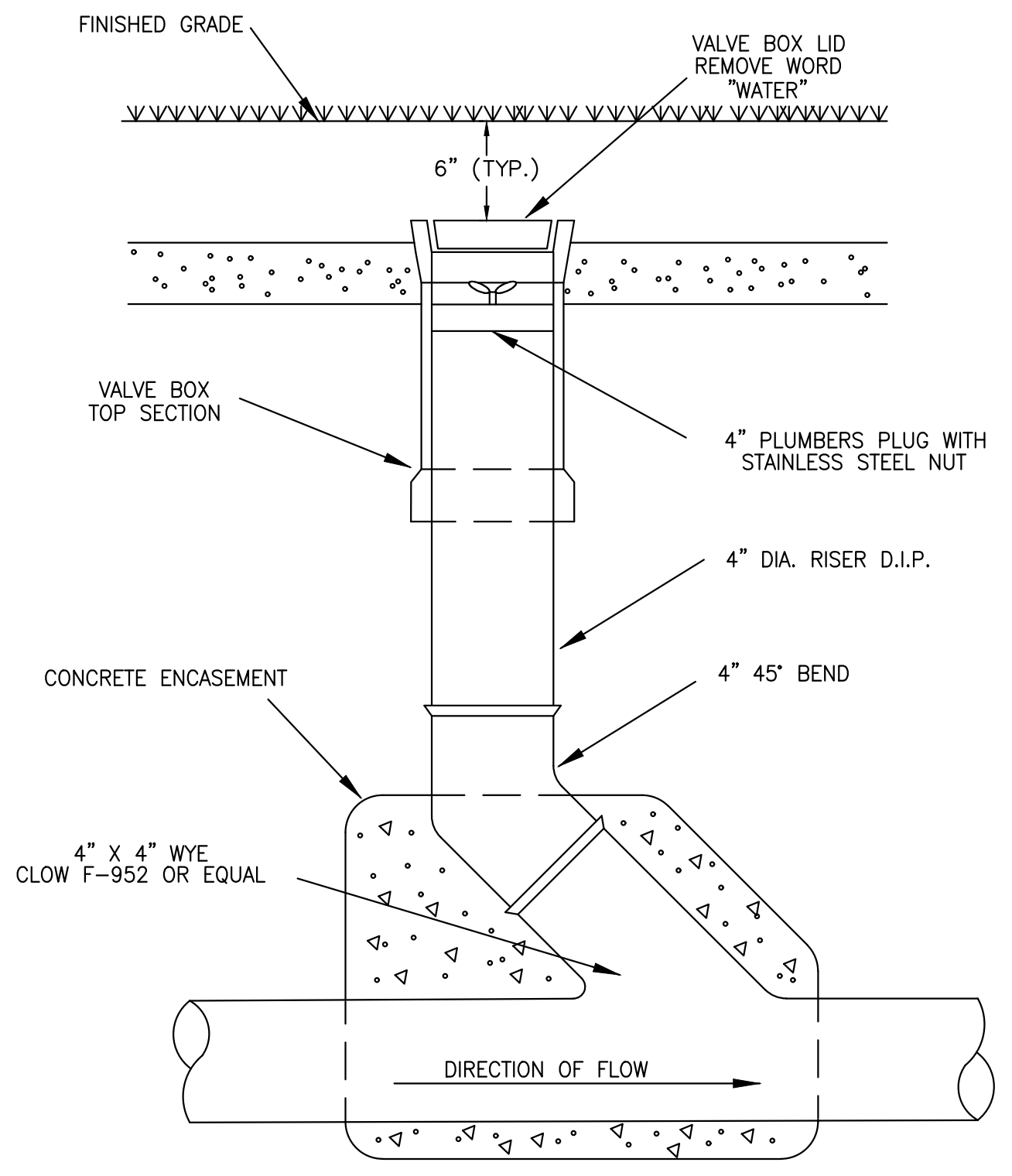
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No.		



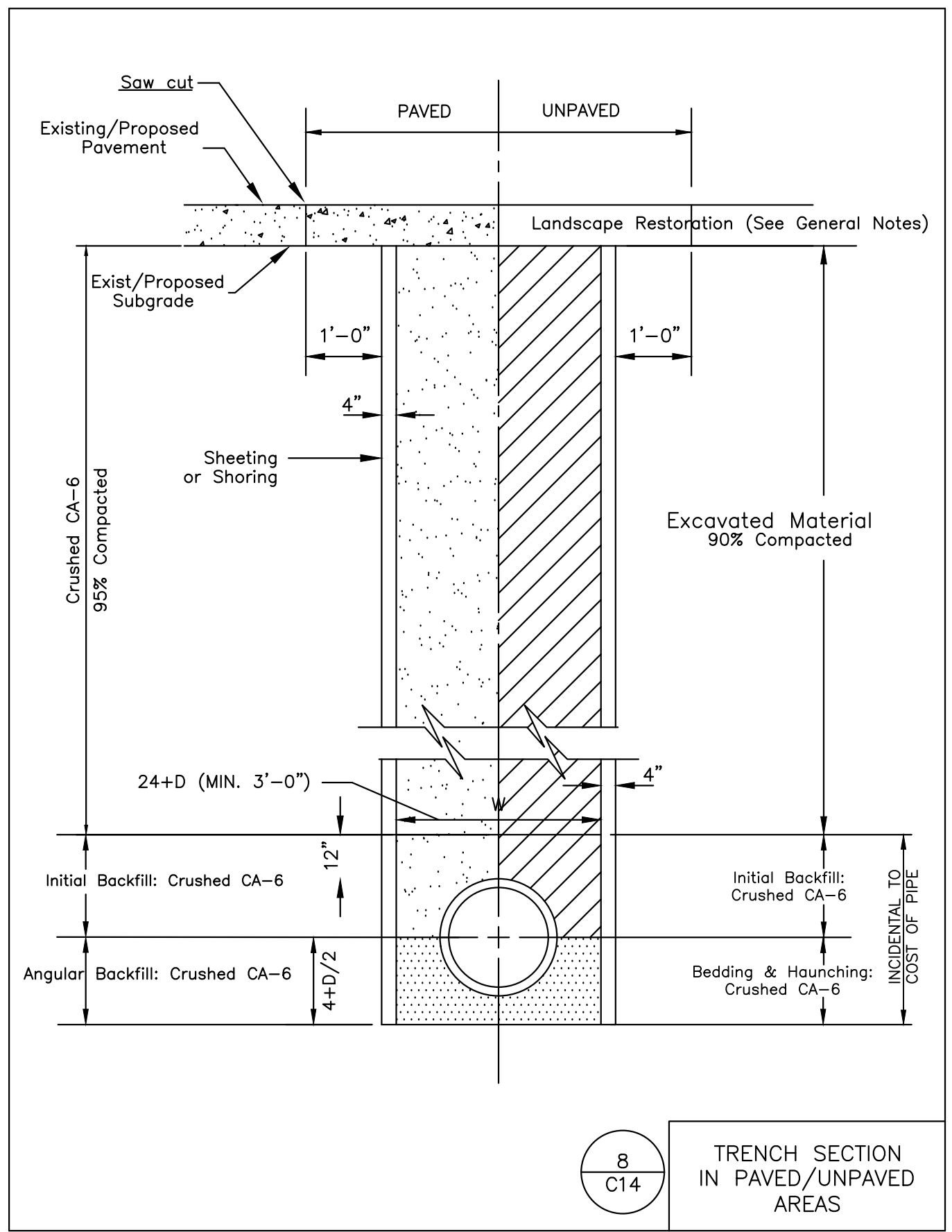
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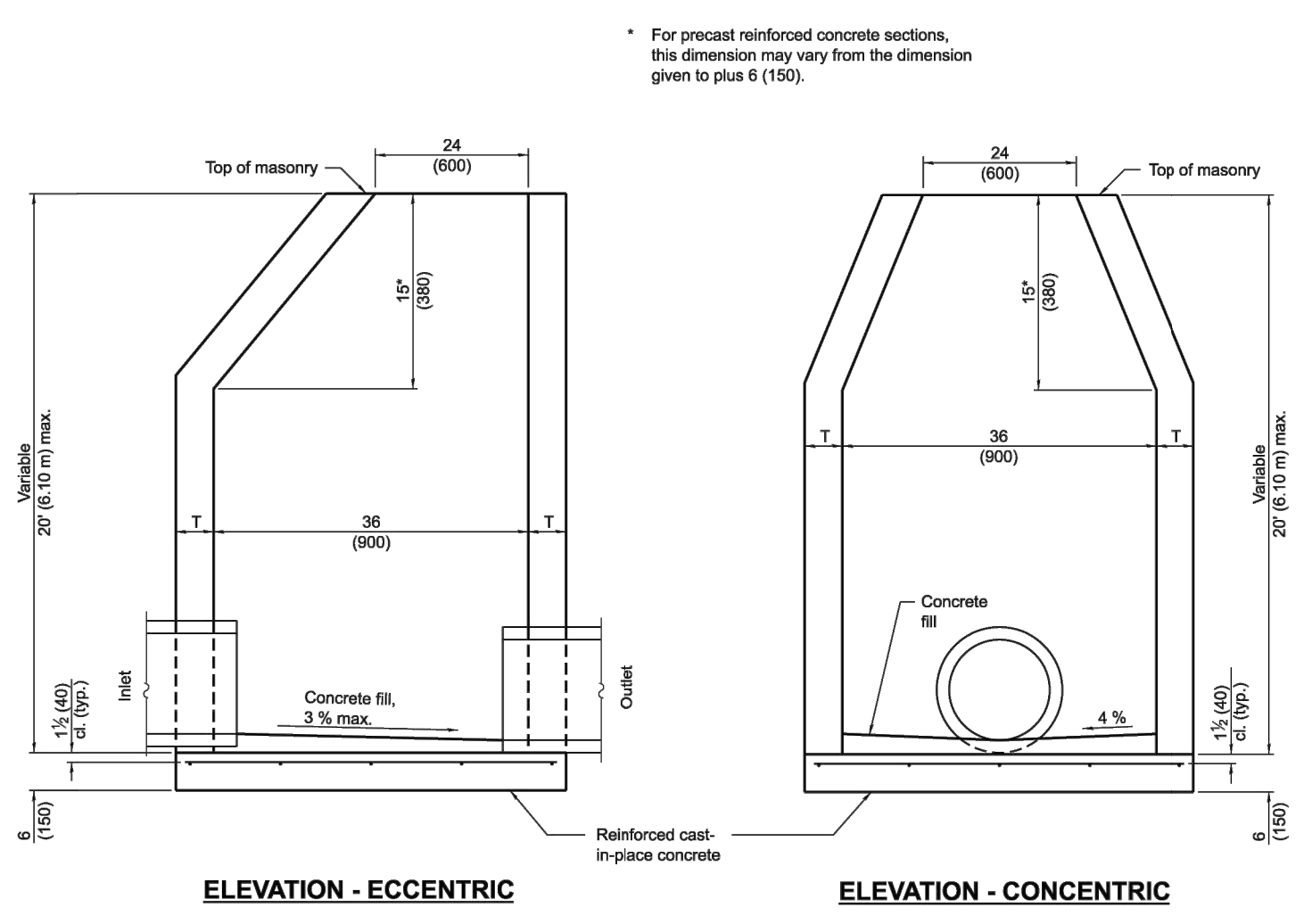
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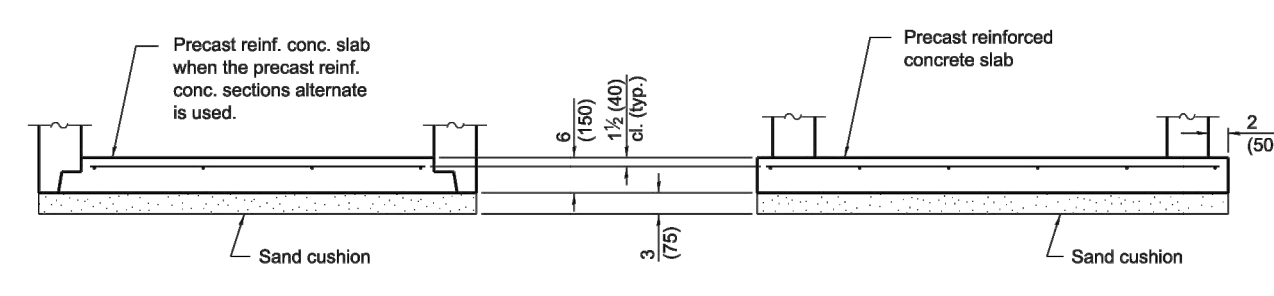
6 CLEAN OUT DETAIL
C14 N.T.S.



8 TRENCH SECTION
C14 IN PAVED/UNPAVED
AREAS



ALTERNATE MATERIALS FOR WALLS	T (min.)
Concrete Masonry Unit	5 (125)
Brick Masonry	8 (200)
Precast Reinforced Concrete Section	3 (75)
Cast-in-Place Concrete	6 (150)



ALTERNATE BOTTOM SLAB

GENERAL NOTES

Bottom slabs shall be reinforced with a minimum of 0.20 sq. in./ft. (420 sq. mm/m) in both directions with a maximum spacing of 12 (300).
Bottom slabs may be connected to the riser as determined by the fabricator; however, only a single row of reinforcement around the perimeter may be utilized.
See Standard 602601 for optional Precast Reinforced Concrete Flat Slab Top.
All dimensions are in inches (millimeters) unless otherwise shown.

DATE	REVISIONS
1-1-11	Detailed rein. in slabs. Added max. limit to height. Revised general notes.
1-1-09	Switched units to English (metric).

7 INLET - TYPE B
C14
STANDARD 602306-03

Freezeless UTILITY Yard Hydrants

U150 - 1 1/2" FPT Inlet U200 - 2" FPT Inlet

SUGGESTED USES:
Auxiliary fire fighting during frequent emergencies; main street hydrant for irrigation systems; concealed in-FPT hydrant points where a permanent outlet is required.

Features:

- Automatic drain-back design to prevent freezing
- Outlet can be opened or closed from ground level adjusting depth of the hydrant
- All working parts are removable from the hydrant
- Lever handle can be easily opened or closed and utilized as a handle

Specifications:
INLET: Model U150: 1 1/2" Brass Valve Body, FPT
 Model U200: 2" Brass Valve Body, FPT
OUTLET: Model U150: 1 1/2" FPT Galvanized Tee
 Model U200: 2" FPT Galvanized Tee
HANDLES: Alloy casting Lever Handle Wheel Handle (see descriptions below)
WHEEL HANDLE: To be operated from top operation
OPERATING ROD: 1/2" diameter
CASING: 1 1/2" or 2" galvanized steel
MAX. PRESSURE: U150 - 250 PSI
 U150M - 100 PSI
 U200M - 100 PSI
 U200W - 100 PSI

SHIPPING WEIGHT:

Buyer's Part	1	3	5	7
U150M - 100 PSI	20	26	32	39
U200M - 100 PSI	25	33	41	49

Woodford Excellence Since 1929 Proudly Made in the U.S.A.

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4TH FLOOR
ROCKFORD, IL 61104
PH: 815.985.6400
www.imegcorp.com
Illinois Design Firm Registration #194.007637-0014

**ROCK VALLEY COLLEGE ATHLETIC
FIELD IMPROVEMENTS
ROCKFORD, ILLINOIS**

DETAILS

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Illinois Department of Transportation

APPROVED: [Signature] 2011
ENGINEER OF POLICY AND PROCEDURES

APPROVED: [Signature] 2011
ENGINEER OF DESIGN AND ENVIRONMENT

#P-11, 02/01/10

Wednesday, October 16, 2024 10:21:35 AM
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FLEXSTORM CATCH-IT FILTERS FOR TEMPORARY INLET PROTECTION
PRODUCT SELECTION AND SPECIFICATION DRAWING

Product selection for FLEXSTORM CATCH-IT Filters (Temporary Inlet Protection)						
ILDOT Standard	Neenah Casting	East Jordan Casting	Inlet Type	Grate Size	Bag Cap. (ft³)	Flow Rating @ BAG (CF8)
1	1713, 1782, 1772, 2654	1020, 1022, 1050, 1058	Round (RD)	22.25 x 23.5	1.9	1.3
2	R-3501-C2-A	7170, 7171	Roller Curb (RC)	22.25 x 18.25	1.6	0.8
3	R3278-A, R-3501-A	7220, 7221	Curb Box (CB)	22.0 x 16.9	1.5	1.0
4	R3443-B	5150	Square/Rect (SQ)	21.75 x 14.75	1.5	1.0
6	R3552-A	7235	Roller Curb (RC)	22 x 22.75	2.3	1.2
8	2501, 4348-C, 4352, 4350	2830, 2870, 6527	Round (RD)	See notes/Grates	2.3	1.8
9	R3508-A2	7300	V-Grate	22.75 x 22.4	2.5	1.2
10	R3508-A2	7281	V-Grate	19.25 x 19.25	1.7	1.0
11	R3281-A	7210	Curb Box (CB)	28.75 x 11	2.2	1.1
12	R3503-B	7180	Roller Curb (RC)	28.75 x 17.25	2.6	1.3
20	R3528-V, R3528-V	7535, 5380, 7536, 5298	Square/Rect (SQ)	22.5 x 22.5	2.4	1.2
21	R3527-V	7540	Curb Box (CB)	22.5 x 22.5	2.4	1.2
23	R3528-L	7484	Square/Rect (SQ)	24 x 18.25	2.0	1.0
24	R3528-L	7487	Square/Rect (SQ)	24 x 22.25	2.3	1.2
31	---	7250	Roller Curb (RC)	25.75 x 18.75	2.5	1.2
8	R3450C	---	Square/Rect (SQ)	36 x 24	4.8	1.7
GS3G4	R3501-U	7545	Single W/Flap	13.75 / 20.2 x 22.12	1.3	0.9
	R-3067	7030	Curb Box (CB)	35.5 x 18.0	3.8	2.2
	R-3010	---	Curb Box (CB)	23 x 15	1.5	1.0
	R-3501-L1A	7010	Curb Box (CB)	23 x 15	1.5	1.0
	R-3501-P	7525	Roller Curb (RC)	25.7 x 19	2.4	1.2
	R-3501-TR	7495	Roller Curb (RC)	28 x 23.5	3.1	1.4

INSTALLATION:

- REMOVE GRATE
- DROP FLEXSTORM INLET FILTER ONTO LOAD BEARING LIP OF CASTING OR CONCRETE STRUCTURE
- REPLACE GRATE

NOTES:

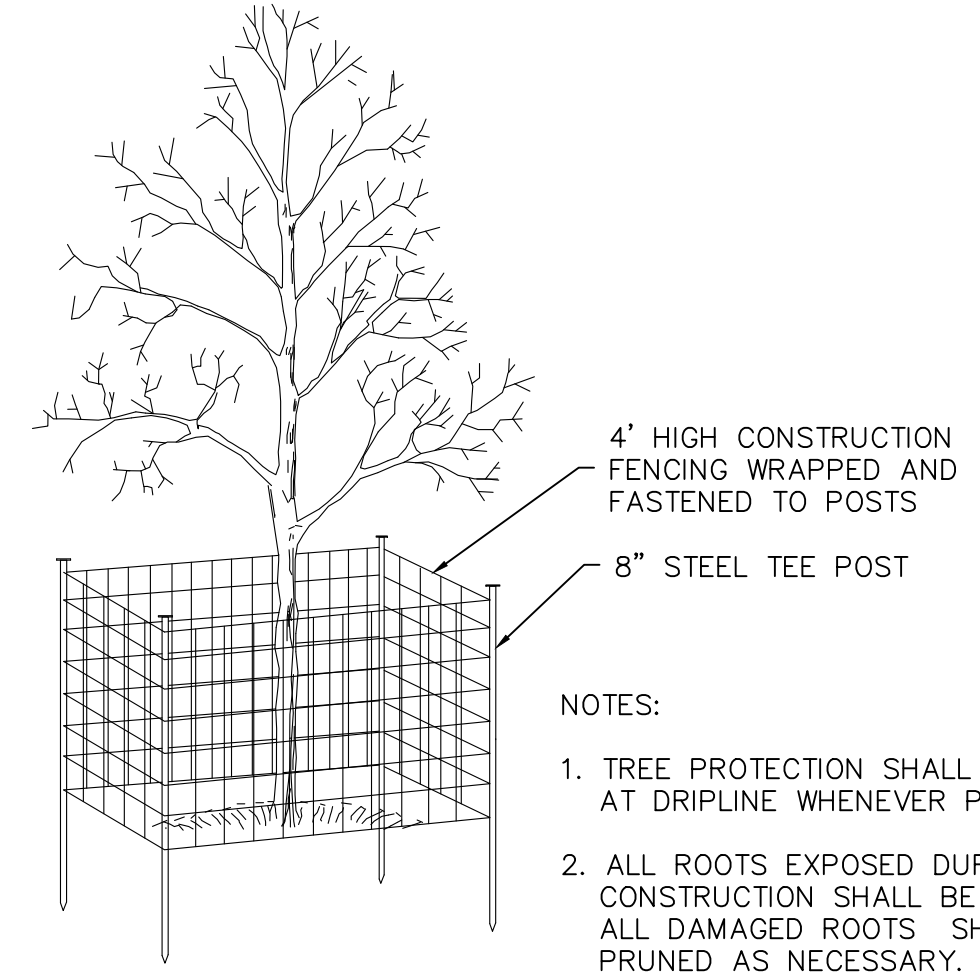
- ALL FRAMING IS CONSTRUCTED OF CORROSION RESISTANT STEEL FRAMING FOR PROLONGED PRODUCT LIFE.
- TOTAL BYPASS CAPACITY WILL VARY WITH EACH SIZED DRAINAGE STRUCTURE. FLEXSTORM DESIGNS FRAMING BYPASS TO MEET OR EXCEED THE DESIGN FLOW OF THE PARTICULAR DRAINAGE STRUCTURE. CONCRETE STRUCTURES MAY REQUIRE ADDITIONAL REVIEW.
- UPON ORDERING THE ADS P/N CONFIRMATION OF THE DOT CALLOUT, FLEXSTORM ITEM CODE, CASTING MAKE AND MODEL, OR DETAILED DIMENSIONAL FORMS MUST BE PROVIDED.
- FOR WRITTEN SPECIFICATIONS AND MAINTENANCE GUIDELINES VISIT WWW.INLETFILTERS.COM

ILLINOIS

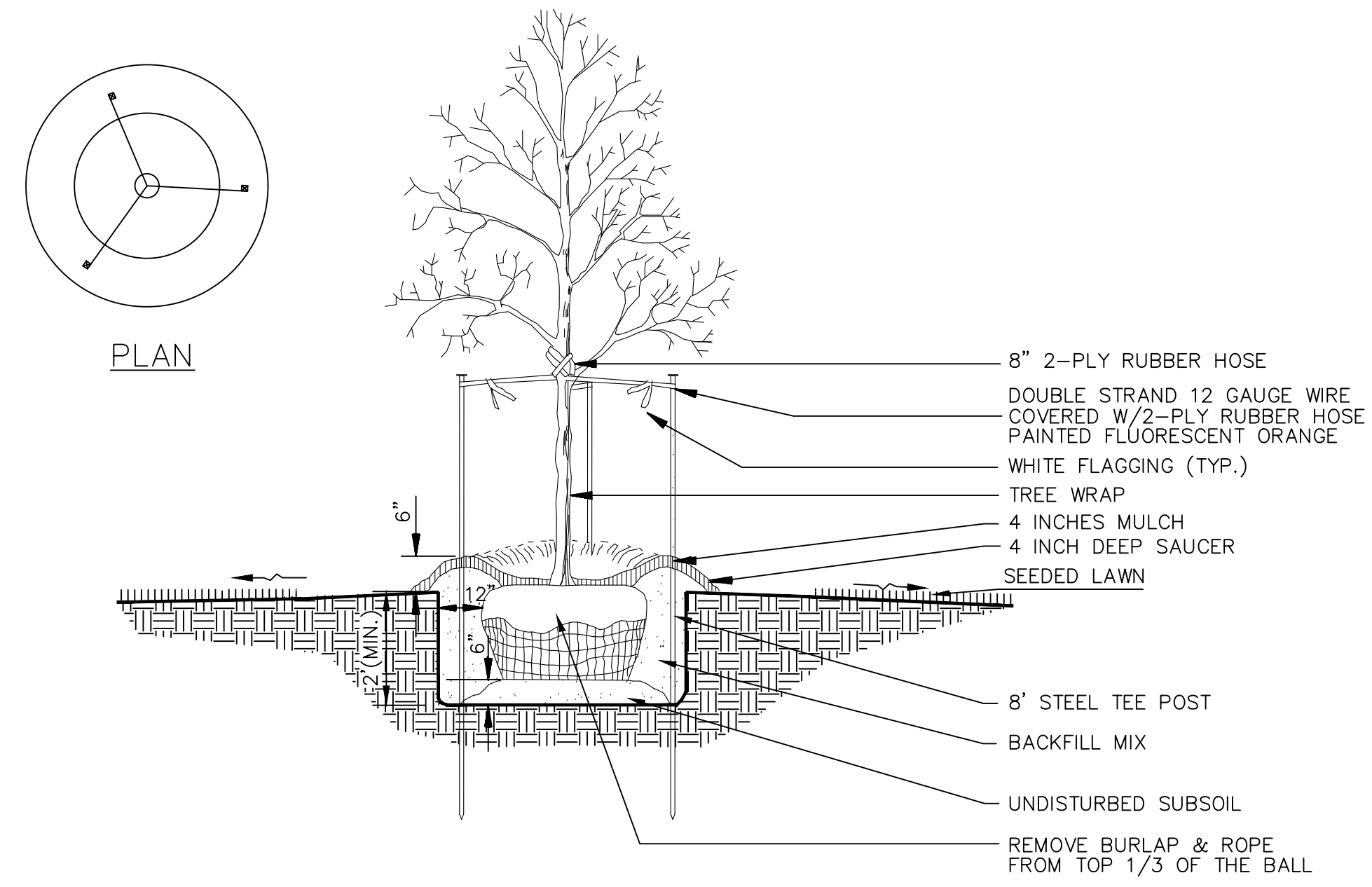
ALL PRODUCTS MANUFACTURED BY INLET & PIPE PROTECTION, INC. A DIVISION OF ADS, INC. WWW.INLETFILTERS.COM (866) 287-8655 PH (630) 355-3477 FX INFO@INLETFILTERS.COM

10 C15

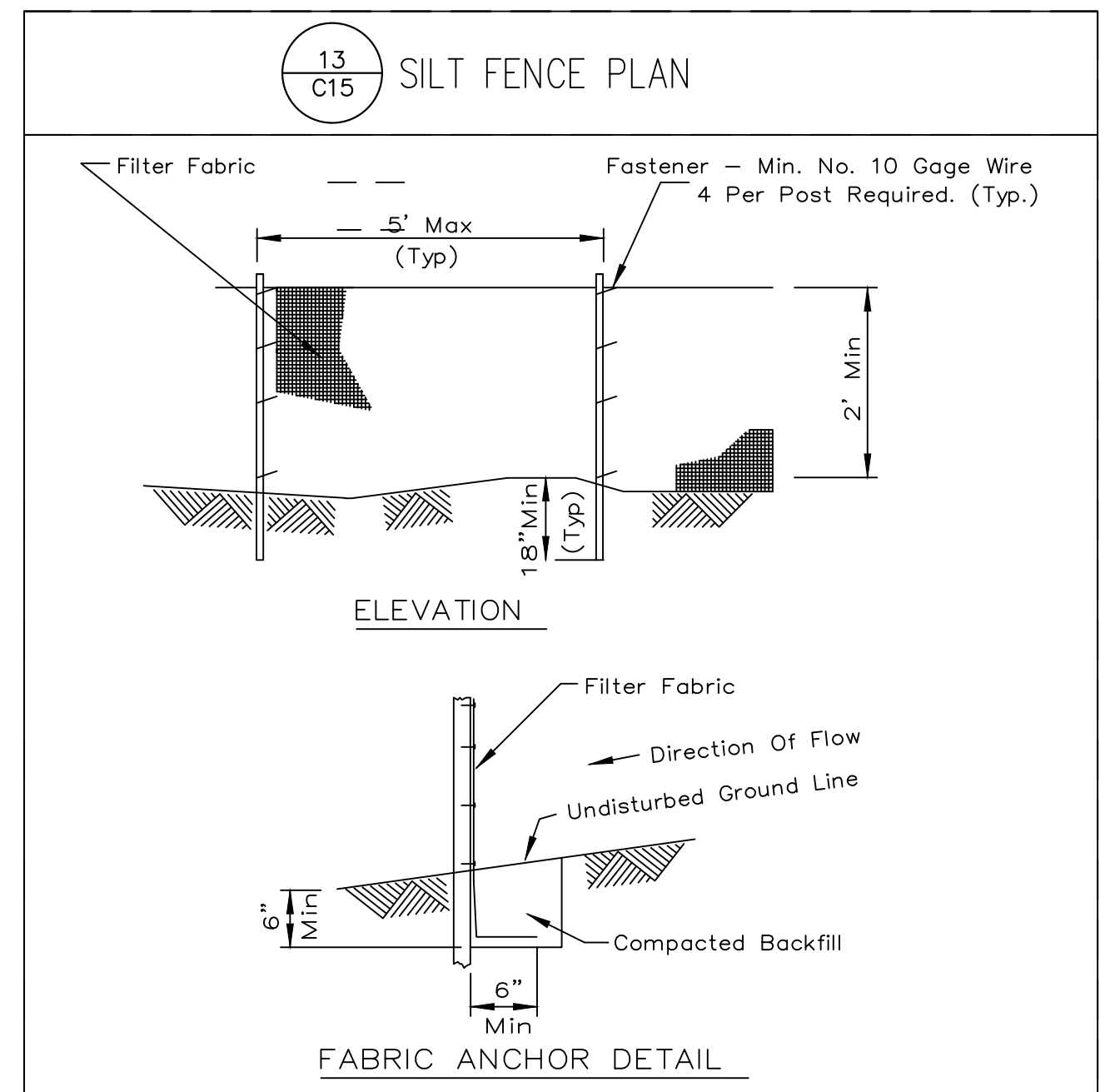
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12 TREE PROTECTION DETAIL
 NOT TO SCALE



11 TREE PLANTING DETAIL
 NOT TO SCALE



- NOTES:**
- Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
 - Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class with equivalent opening size of at least 30 for nonwoven and 40 for woven.
 - Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE Project	DESIGNED Date	DESIGNED Date	STANDARD DWG. NO. IUM-620
Checked	Date	Date	
Approved	Date	Date	

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IMEG

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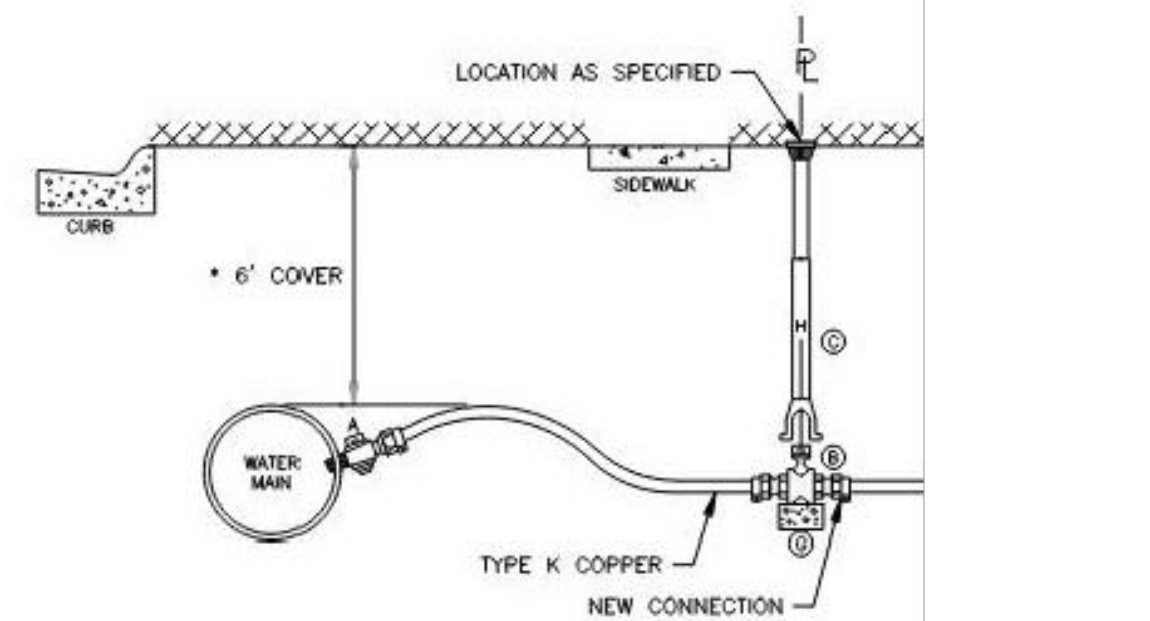
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 ROCKFORD, ILLINOIS

DETAILS

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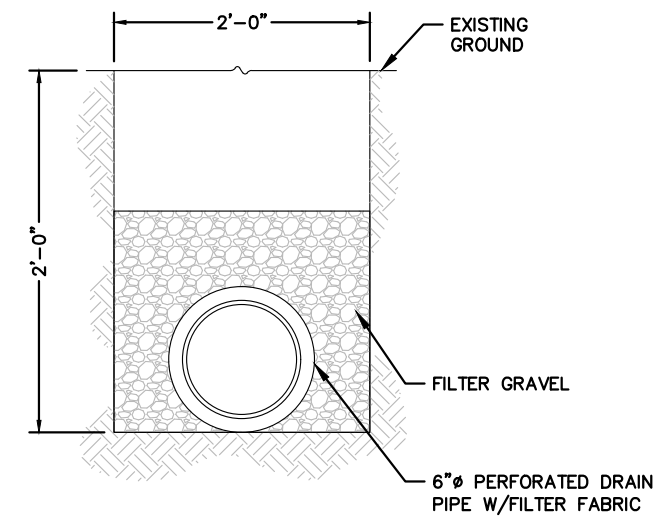
NOTE:
 ANY EXISTING LEAD WATER SERVICES SHALL HAVE 18" OF WATER MAIN QUALITY HDPE PIPE OF THE DESIGNATED SERVICE SIZE CONNECTED BETWEEN THE END OF THE PUBLIC AND PRIVATE SERVICE LINES.

ITEM	DESCRIPTION	SIZE
A	CORPORATION STOP	3/4"-2"
B	CURB STOP	3/4"-2"
C	CURB BOX	EXTENDABLE
D	METER STOP	3/4"-2"
E	METER SPREAD	3/4"-2"
F	METER STOP HOUSE SIDE	3/4"-2"
G	BRICK	CEMENT
H	ROD	3/8"



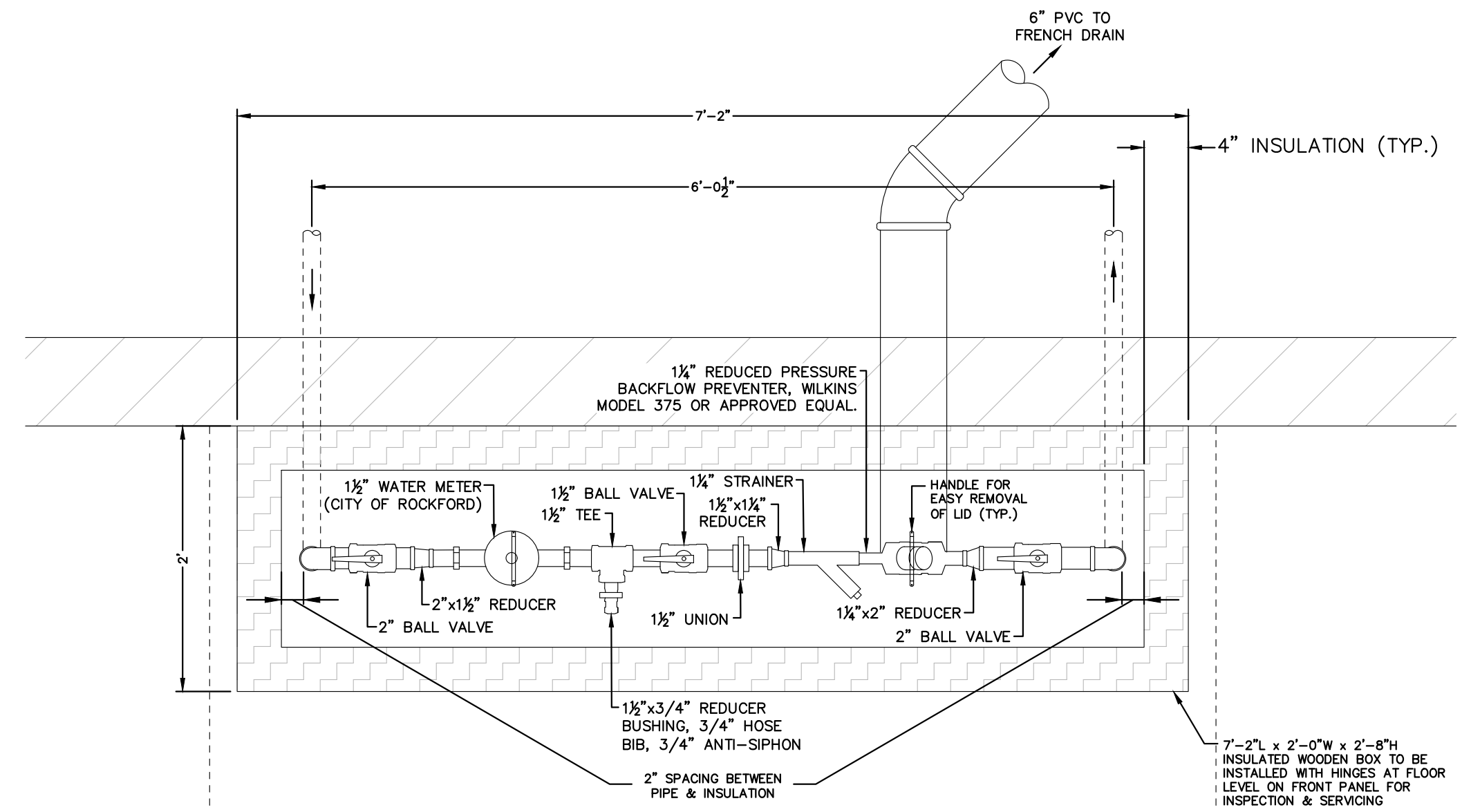
* UNLESS OTHERWISE INDICATED ON PLANS

**CITY OF ROCKFORD
 WATER SERVICE DETAIL
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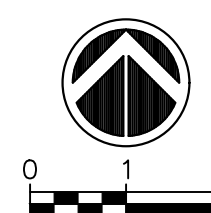
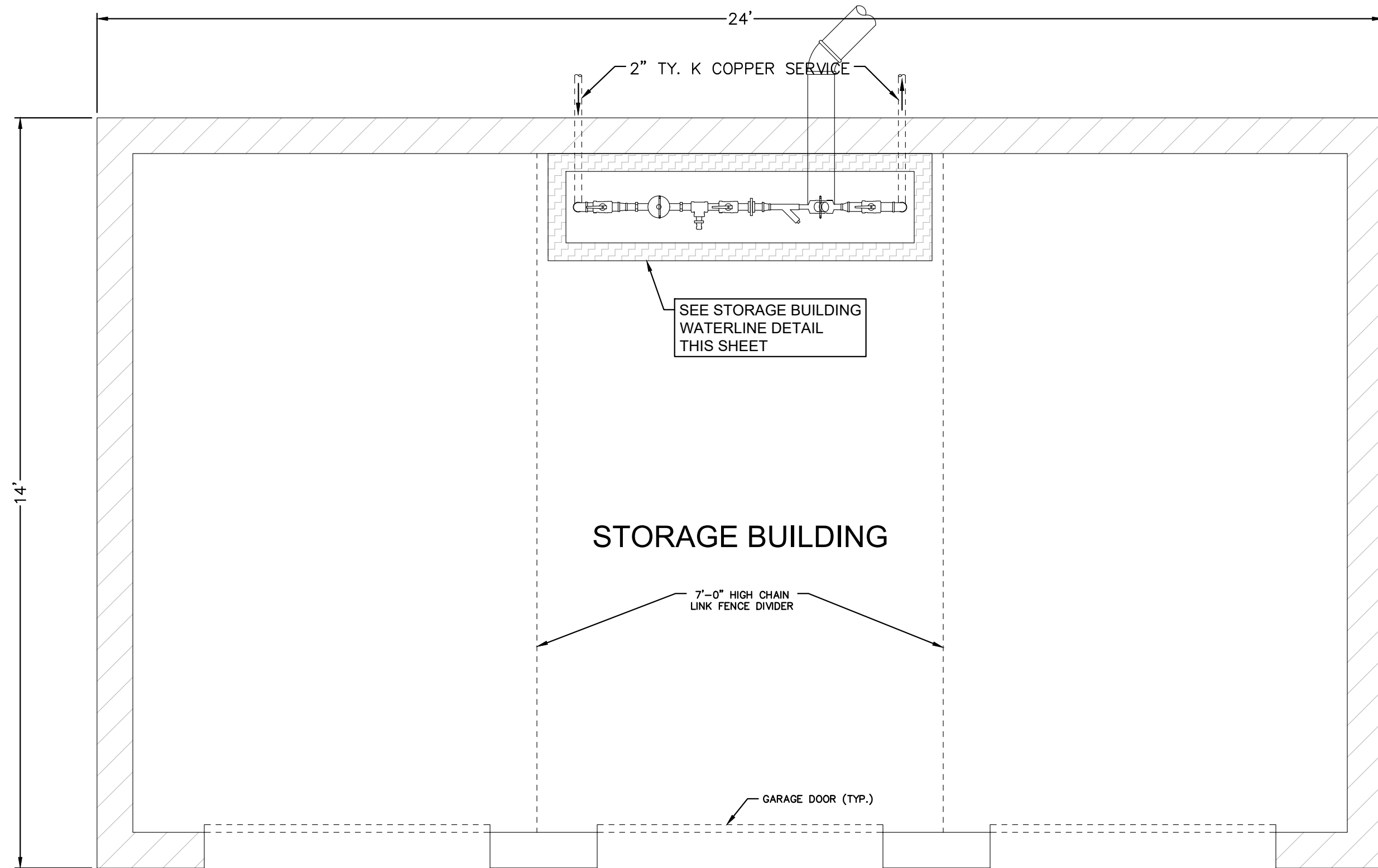


NOTE: TRENCH LENGTH SHALL BE 50' LONG

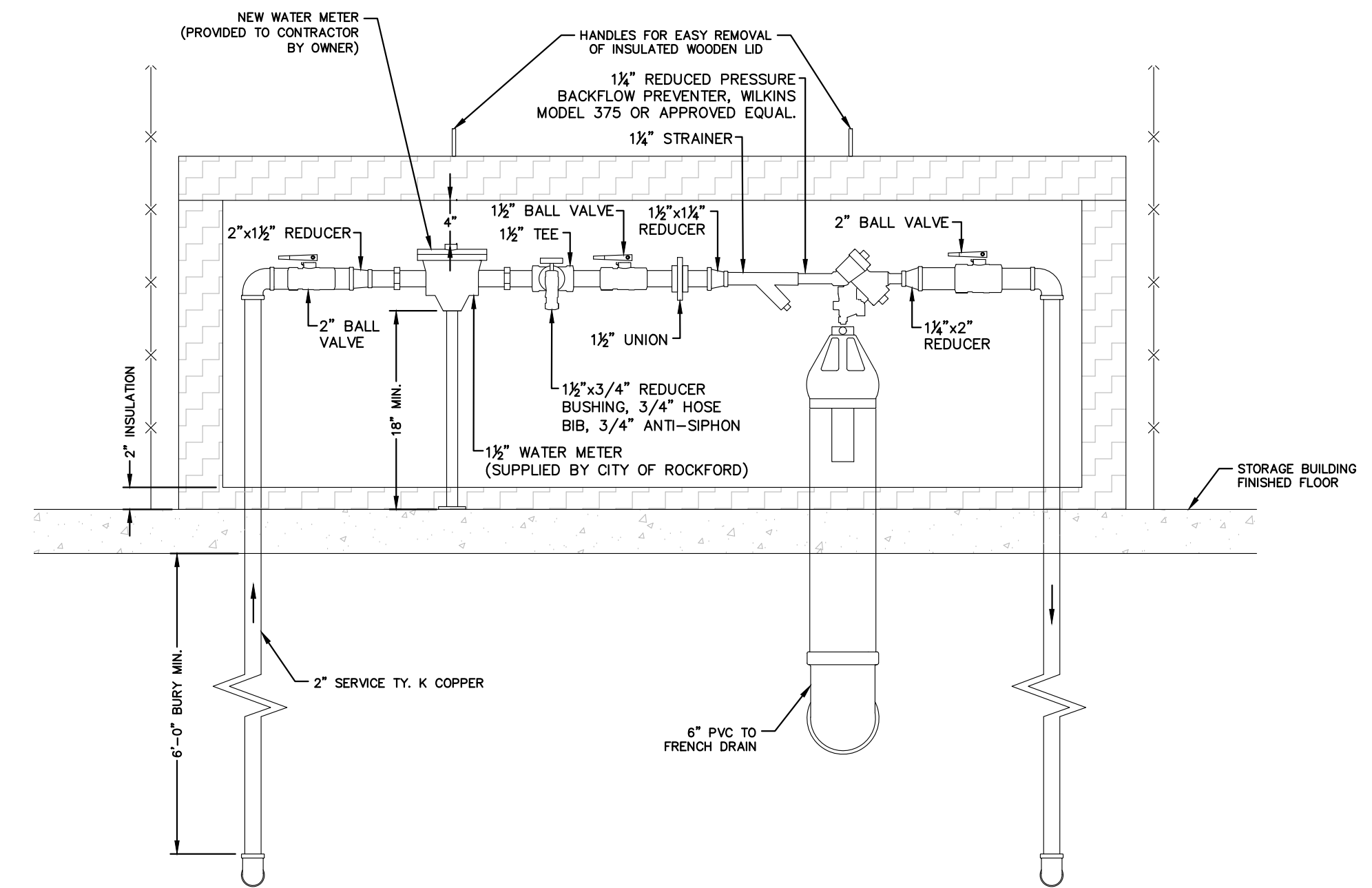
**FRENCH DRAIN PIPE
 BEDDING DETAIL
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**STORAGE BUILDING WATERLINE DETAIL
 SCALE: 1" = 1' - 0"**

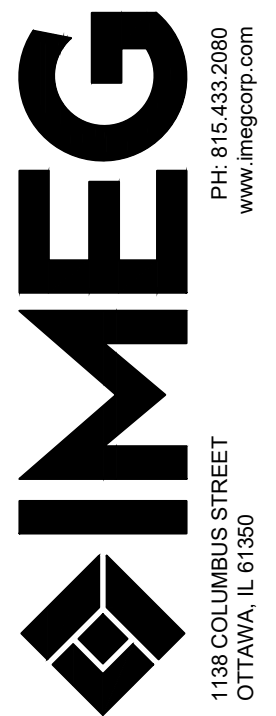


**STORAGE BUILDING WATERLINE PLAN
 SCALE: 1/2" = 1' - 0"**



**STORAGE BUILDING WATERLINE ELEVATION
 SCALE: 1" = 1' - 0"**

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**ROCK VALLEY COLLEGE ATHLETIC
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 ROCKFORD, ILLINOIS
 STORAGE BLDG WATER DETAILS**

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 24001581-STORAGE BLDG
 WATER.DTL.DWG
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 Drawn By: JJP
 Checked By: DWB
 Date: 11/6/2024

C16
 Sheet 16 of 17

EXISTING PANEL SCHEDULE (LV)							
TYPE		BOLT-ON BREAKERS		PANEL SYMBOL		LV 100A MAIN BKR.	
INSTALLATION		SURFACE MOUNTING		GROUND		120/208 VOLTS	
PANEL LOCATION		PUMP ROOM		GROUND		3 PHASE 4-WIRE	
CKT No.	CIRCUIT	WIRE SIZE	BRKR SIZE	BRKR SIZE	WIRE SIZE	CIRCUIT DESCRIPTION	CKT No.
1							2
3	MAIN	*	100		35	SPARE	4
5							6
7	LIGHTS	*	20		20	WATER HEATER	8
9	RECEPTACLES	*	20		20	SPARE	10
11	OUTSIDE LIGHTS	*	20		20	SPARE	12
13	EXHAUST FAN	*	20		20	SPARE	14
15	SPRINKLER PANEL	*	20		20	EMERGENCY CALL BOX	16
17	JOHNSON CONTROL UNIT	*	20		20	SPARE	18
19	SPARE		20		20	SPARE	20
21	SPARE		20				22
23					20	WOMEN'S RESTROOM HEAT	24
25							26
27							28
29					20	MEN'S RESTROOM HEAT	30
31							32
33							34
35							36
37							38
39							40
41							42

* - EXISTING WIRING TO REMAIN

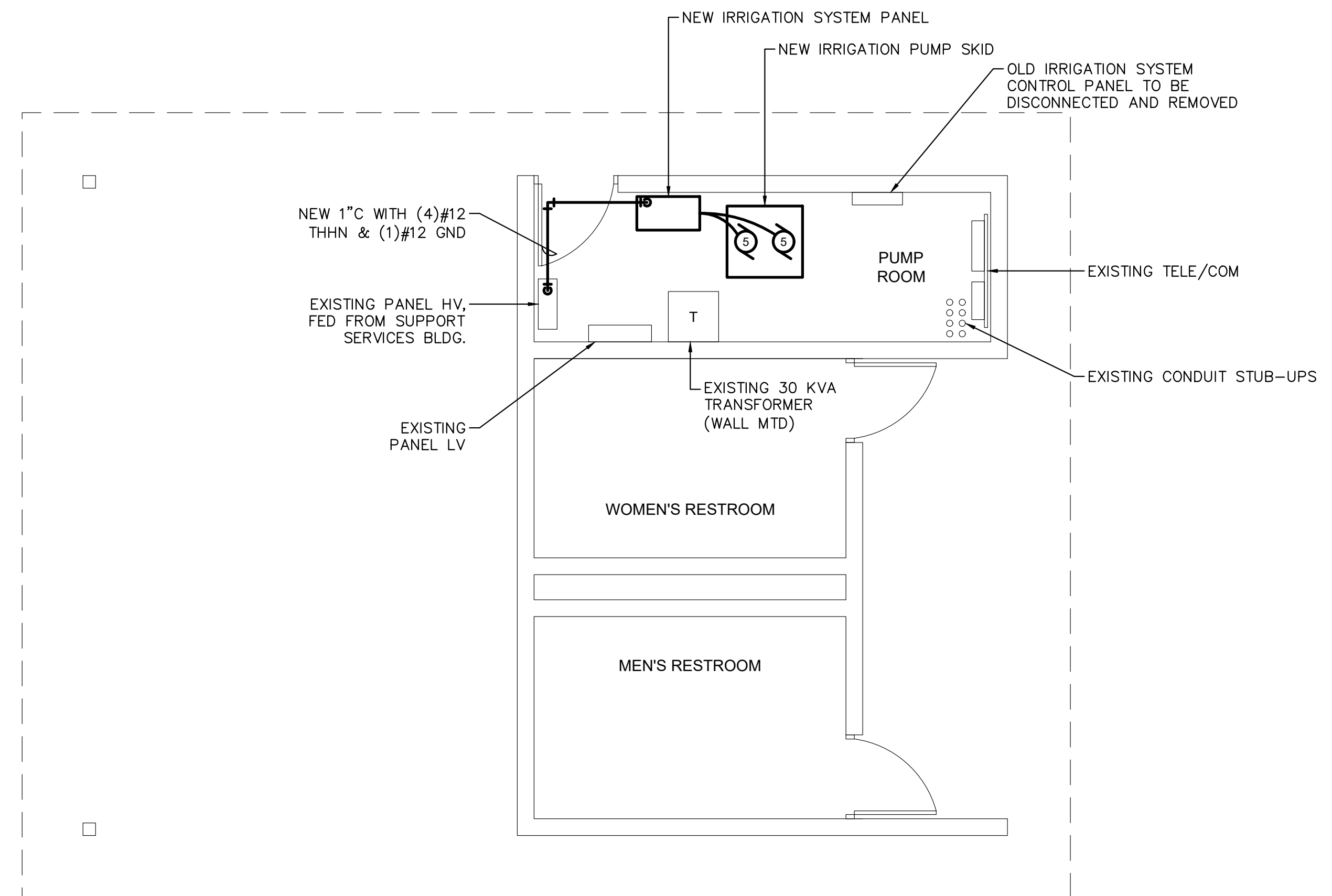
EXISTING PANEL SCHEDULE (HV)							
TYPE		BOLT-ON BREAKERS		PANEL SYMBOL		HV 200A MAIN BKR.	
INSTALLATION		SURFACE MOUNTING		GROUND		277/480 VOLTS	
PANEL LOCATION		PUMP ROOM		GROUND		3 PHASE 4-WIRE	
CKT No.	CIRCUIT	WIRE SIZE	BRKR SIZE	BRKR SIZE	WIRE SIZE	CIRCUIT DESCRIPTION	CKT No.
1							2
3	PRESS BOX	*	45		45	CONC. LV PANEL	4
5							6
7							8
9	UNIT HEATER	*	15		30	SPARE (OLD PUMP)	10
11							12
13							14
15					20	NEW IRRIGATION SYSTEM	16
17							18
19							20
21							22
23							24
25							26
27							28
29							30
31							32
33							34
35							36
37							38
39							40
41							42

* - EXISTING WIRING TO REMAIN

PROVIDE NEW CIRCUIT BREAKER IN EXISTING PANEL

ELECTRICAL SPECIFICATIONS

- ALL ELECTRICAL CONDUCTORS SHALL BE COPPER.
- A GREEN INSULATED GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS TO ALL LOADS.
- FLUSH MOUNT ALL INTERIOR DUPLEX RECEPTACLES AT +48" ABOVE FINISHED FLOOR. FLUSH MOUNT EXTERIOR RECEPTACLES AT +18" ABOVE FINISHED FLOOR.
- ABBREVIATION KEY:
C CONDUIT
AFF ABOVE FINISH FLOOR
+#" MOUNTING HEIGHT FROM FINISHED FLOOR TO CENTERLINE
- SUBSCRIPT KEY:
GFCI GROUND FAULT CIRCUIT INTERRUPTING
WP WEATHERPROOF COVERPLATE AND BOX; RATED FOR WET LOCATION
- THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO INSTALLATION.
- MINIMUM CONDUIT SIZE SHALL BE 3/4".
- ALL CIRCUITS SHALL BE GROUNDED.
- CONDUITS SHALL BE SIZED FOR PROPER CONDUIT FILL PER NEC.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT IBC, NFPA, NEC AND ALL GOVERNING CODES, STANDARDS AND REGULATIONS. NOTHING IN THESE PLANS AND SPECIFICATIONS SHALL BE CONSTRUED AS INTENDING TO SUPERSEDE SUCH REQUIREMENTS.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, LICENSES, AND APPROVALS AND PAY ALL FEES AND EXPENSES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VISITING THE SITE AND VERIFYING ALL EXISTING FIELD CONDITIONS PRIOR TO SUBMISSION OF BID. THE CONTRACT DOCUMENTS INDICATE APPROXIMATE LOCATIONS OF NEW AND EXISTING EQUIPMENT, PIPING, AND DUCTWORK AND ARE DIAGRAMMATIC IN NATURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL LOCATION, ROUTING, AND SIZE OF EXISTING UTILITIES.
- CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED FOR THE INSTALLATION OF COMPLETE AND PROPER FUNCTIONING SYSTEMS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THIS WORK WITH THE WORK OF ALL OTHER TRADES.
- CONTRACTOR SHALL PROVIDE ALL OPENINGS AND SLEEVES FOR INSTALLATION OF THIS WORK. ALL CUTTING AND PATCHING SHALL BE A PART OF THIS CONTRACT.
- CONTRACTOR SHALL PROTECT EXISTING STRUCTURES, GROUNDS, AND EQUIPMENT FROM DAMAGE WHICH MIGHT OCCUR DURING CONSTRUCTION. ANY DAMAGE TO EXISTING FACILITIES SHALL BE REPAIRED OR REPLACED TO RESTORE TO ORIGINAL CONDITION (AND TO SATISFACTION OF THE OWNER) AT NO ADDITIONAL COST.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND EQUIPMENT CUT-SHEETS FOR APPROVAL BY ENGINEER. SHOP DRAWINGS MUST BE SUBMITTED AND APPROVED PRIOR TO INSTALLATION.
- CONTRACTOR SHALL KEEP A RECORD OF ACTUAL CONSTRUCTION AND SHALL SUBMIT "AS-BUILT" RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK.
- UPON SUBSTANTIAL COMPLETION OF REQUIRED WORK, CONTRACTOR SHALL OPERATE AND MAKE ADJUSTMENTS TO COMPONENTS, MOTORS, STARTERS, PANELS, BALLASTS, LAMPS, ETC. AS REQUIRED TO PUT ALL SYSTEMS IN PROPER OPERATING CONDITION.
- FINAL INSPECTION AND TESTS SHALL BE MADE IN THE PRESENCE OF THE ENGINEER, BY THE CONTRACTOR RESPONSIBLE FOR THE INSTALLATION.
- CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND LABOR FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE.
- INTERIOR CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT) WITH COMPRESSION TYPE FITTINGS, SURFACE MOUNTED.



CONCESSION ELECTRICAL PLAN

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

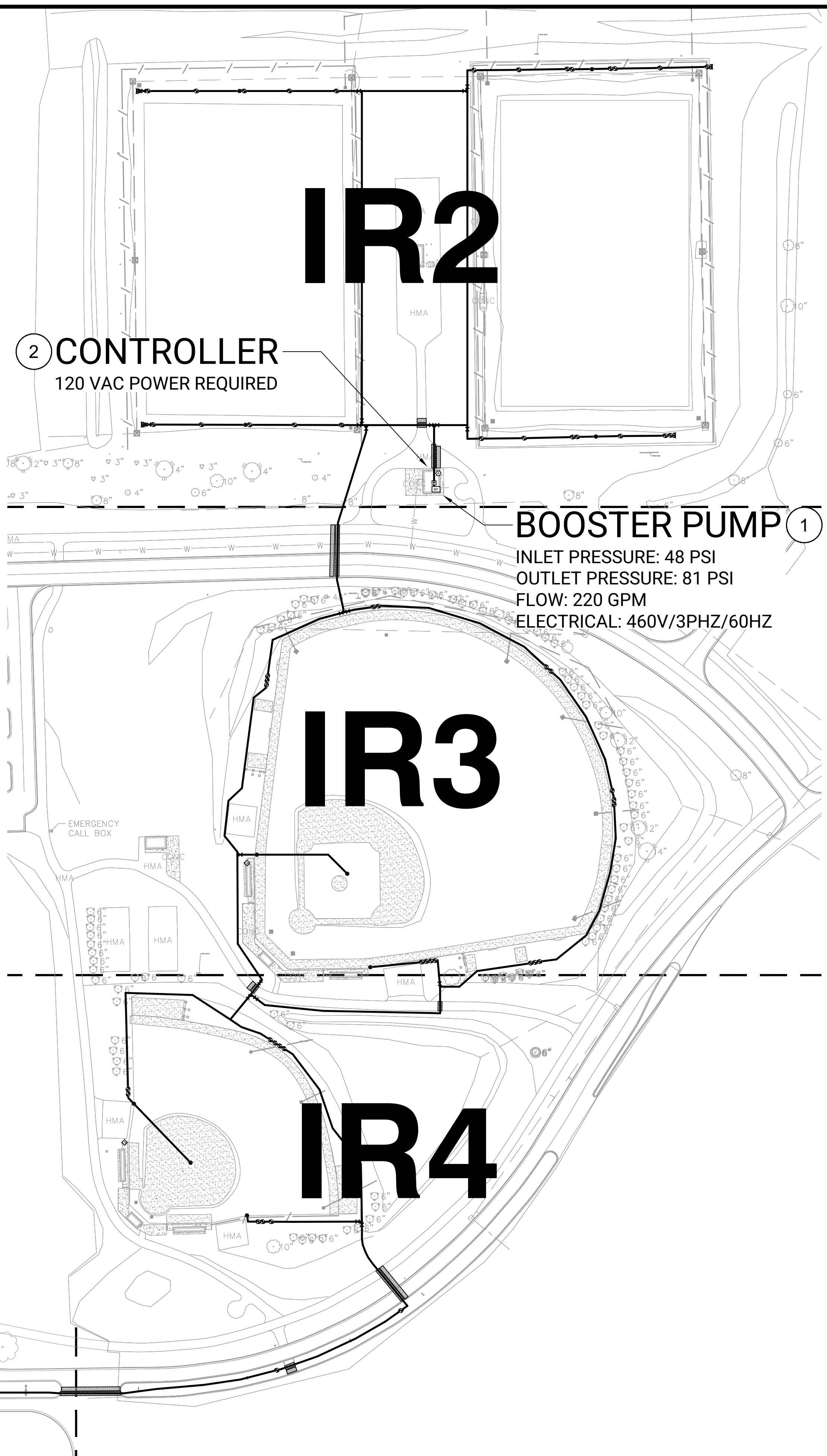
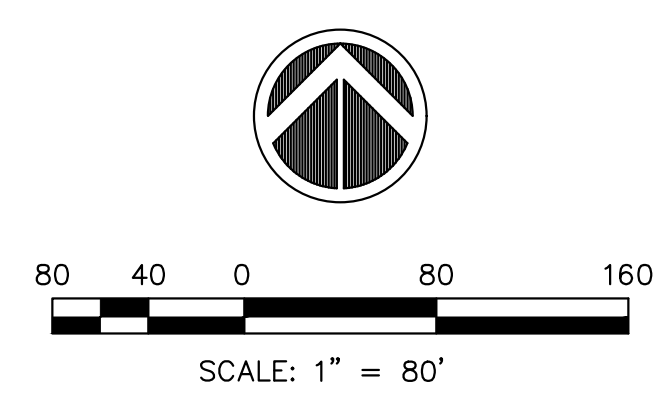
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 www.imegcorp.com
 Illinois Design Firm Registration #184.007637-0014

ROCK VALLEY COLLEGE ATHLETIC
 FIELD IMPROVEMENTS
 ROCKFORD, ILLINOIS
 ELECTRICAL PLAN & SCHEDULES

IMEG Project No: 24001581.00
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E1



IRRIGATION LEGEND

- SLEEVES: CLASS 200 PVC
 - POINT-OF-CONNECTION ASSEMBLY
 - MAINLINE PIPE: CLASS 200 PVC SIZED PER PLAN
 - LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC TO HUNTER I-40 SERIES ROTORS SDR 15 HDPE PIPE TO HUNTER I-20 ROTORS, SPRAYS AND MP NOZZLES
 - IRRIGATION CONTROL WIRES IN CONDUIT OR WITH WARNING TAPE
 - UNCONNECTED PIPE CROSSING
 - REMOTE CONTROL VALVE ASSEMBLY FOR SPRINKLER LATERALS: HUNTER PGV (SIZED PER PLAN)
 - QUICK COUPLING VALVE ASSEMBLY: LEEMCO L2 QCV
 - ISOLATION GATE VALVE ASSEMBLY: LEEMCO
 - FLOW SENSOR ASSEMBLY: CONNECT TO PUMP STATION SHARED FLOW METER
 - INDICATES CONTROLLER AND STATION NUMBER
 - INDICATES LATERAL DISCHARGE (GPM)
 - INDICATES VALVE SIZE (INCHES)
 - INDICATES LANDSCAPE APPLICATION
 - IRRIGATION CONTROLLER UNIT WITH BASELINE 3200X W/ METAL WALL MOUNT
 - GROUNDING AND SURGE ARRESTOR ASSEMBLY:
 - IRRIGATION MAINLINE CAP ASSEMBLY
 - BOOSTER PUMP ASSEMBLY: SEE SHEET IR8 FOR DETAILS
 - DECODER CABLE FUSE DEVICE (DCFD) WITH LIGHTNING PROTECTION
 - COACH'S BUTTON
- | | |
|----------------------|----------------------------|
| PRESSURE: 30 PSI | RADIUS: 5 FEET TO 15 FEET |
| FLOW (GPM): 08A-0.44 | 10A-0.50 12A-0.32 15A-0.47 |
- | | |
|--------------------|---------------------------|
| PRESSURE: 40 PSI | RADIUS: 8 FEET TO 15 FEET |
| FLOW (GPM): M-0.42 | L-0.63 O-0.84 |
- | | |
|--------------------|----------------------------|
| PRESSURE: 40 PSI | RADIUS: 13 FEET TO 21 FEET |
| FLOW (GPM): K-0.77 | G-1.10 R-1.48 |
- | | |
|--------------------|----------------------------|
| PRESSURE: 40 PSI | RADIUS: 22 FEET TO 30 FEET |
| FLOW (GPM): B-1.82 | Y-2.73 A-3.64 |
- | NOZZLE | RADIUS | FLOW |
|--------|--------|---------|
| 1.5 | 31' | 1.5 GPM |
| 2.0 | 34' | 2.0 GPM |
| 2.5 | 35' | 2.5 GPM |
| 3.0 | 38' | 3.0 GPM |
| 4.0 | 40' | 4.0 GPM |
| 5.0 | 42' | 5.0 GPM |
| 6.0 | 43' | 6.0 GPM |
| 8.0 | 44' | 8.0 GPM |
- | NOZZLE | RADIUS | FLOW |
|--------|--------|----------|
| 8 | 46' | 9.2 GPM |
| 10 | 50' | 11.3 GPM |
| 13 | 51' | 12.3 GPM |
| 15 | 55' | 15.7 GPM |
| 23 | 62' | 21.3 GPM |
| 25 | 66' | 23.9 GPM |
- | NOZZLE | RADIUS | FLOW |
|--------|--------|----------|
| 8 | 46' | 9.2 GPM |
| 10 | 50' | 11.3 GPM |
| 13 | 51' | 12.3 GPM |
| 15 | 55' | 15.7 GPM |
| 23 | 62' | 21.3 GPM |
| 25 | 66' | 23.9 GPM |

CONSTRUCTION NOTES

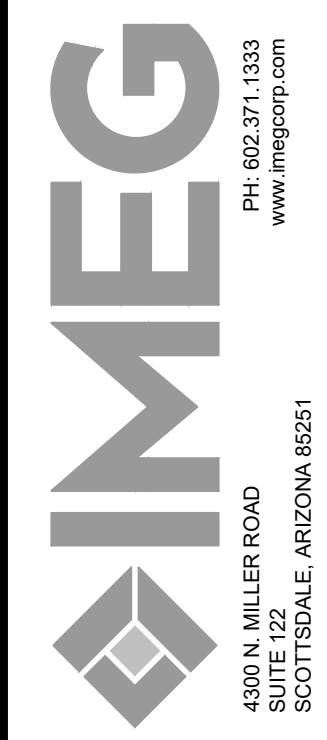
- 1 THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) IS EXISTING. CONTRACTOR TO REMOVE AND DISCARD EXISTING PUMP AND REPLACE WITH A NEW PUMP SPECIFIED IN THE PLAN. VERIFY EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE.
- 2 REMOVE EXISTING CONTROLLER AND MOUNT NEW CONTROLLER IN THE SAME LOCATION. REUSE EXISTING ELECTRICAL POWER CONNECTION TO NEW CONTROLLER.
- 3 CONTRACTOR TO REMOVE EXISTING VALVE BOXES AND SPRINKLER HEADS, FILL REMAINING HOLES AND RESEED.
- 4 SET STANDARD TURF HEADS 1.5 FEET INTO TURF.
- 5 SET HIGH SPEED ROTORS 2 FEET INTO TURF.

INSTALLATION GENERAL NOTES

1. THE SYSTEM DESIGN ASSUMES A STATIC PRESSURE FOR THE IRRIGATION SYSTEM OF 62psi, AT A DESIGN FLOW OF 220 GPM AT THE EXISTING 4-INCH IRRIGATION POINT-OF-CONNECTION (POC). TAP, METER, BACKFLOW PREVENTER, AND FLOW METER SHALL BE SIZED AS INDICATED IN THE DRAWING LEGEND. VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION.
2. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
3. COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
4. DO NOT PROCEED WITH THE INSTALLATION IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED. BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
5. THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
 - A. ALTHOUGH IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY, INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.
 - B. TREE AND SHRUB LOCATIONS AS SHOWN ON LANDSCAPE PLANS TAKE PRECEDENCE OVER IRRIGATION EQUIPMENT LOCATIONS. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES.
 - C. USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF TEES IN THE BULLNOSE CONFIGURATION, OR USE OF CROSS TYPE FITTINGS IS NOT ALLOWED.
6. SELECT NOZZLES FOR SPRAY AND ROTARY SPRINKLERS WITH ARCS WHICH PROVIDE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY FOR THE SITE CONDITIONS. CAREFULLY ADJUST THE RADIUS OF THROW AND ARC OF COVERAGE OF EACH ROTARY SPRINKLER TO PROVIDE THE BEST PERFORMANCE.
7. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE REQUIRED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE INSTALLATION OF SLEEVING WITH OTHER TRADES. ANY PIPE OR WIRE WHICH PASSES BENEATH EXISTING HARDSCAPE WHERE SLEEVING WAS NOT INSTALLED WILL REQUIRE HORIZONTAL BORING BY THE IRRIGATION CONTRACTOR. PIPE SLEEVES SHALL BE SIZED TWICE THE NOMINAL SIZE OF THE PIPE PASSING THROUGH.
8. INSTALL ALL ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRIC UTILITY CODES.
9. THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN TWO IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.
10. IRRIGATION CONTRACTOR TO INSTALL PAIGE DECODER CABLE FUSE DEVICES (DCFD), AT ALL DECODER CABLE DIRECTIONAL SPLITS AND/OR CHANGES. INSTALL ALL SPLICES WITHIN A 10" VALVE BOX.

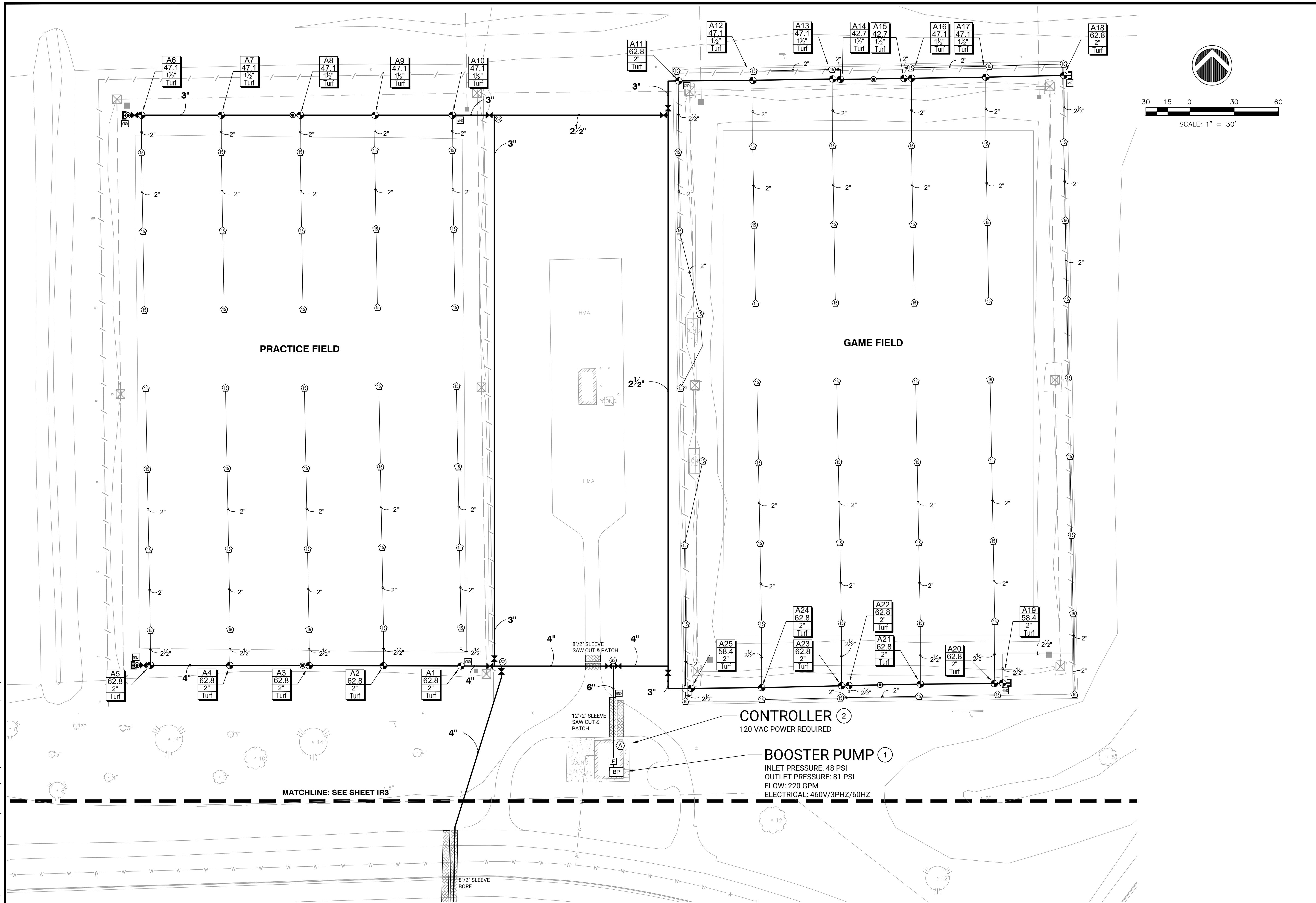
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ROCK VALLEY COLLEGE
ROCKFORD, ILLINOIS
**OVERALL IRRIGATION PLAN,
LEGEND, AND NOTES**

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IR1
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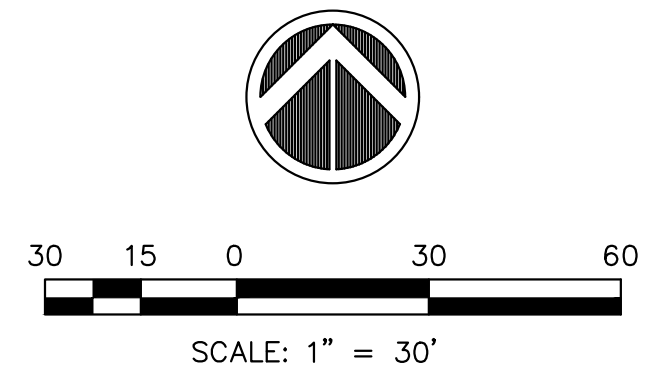
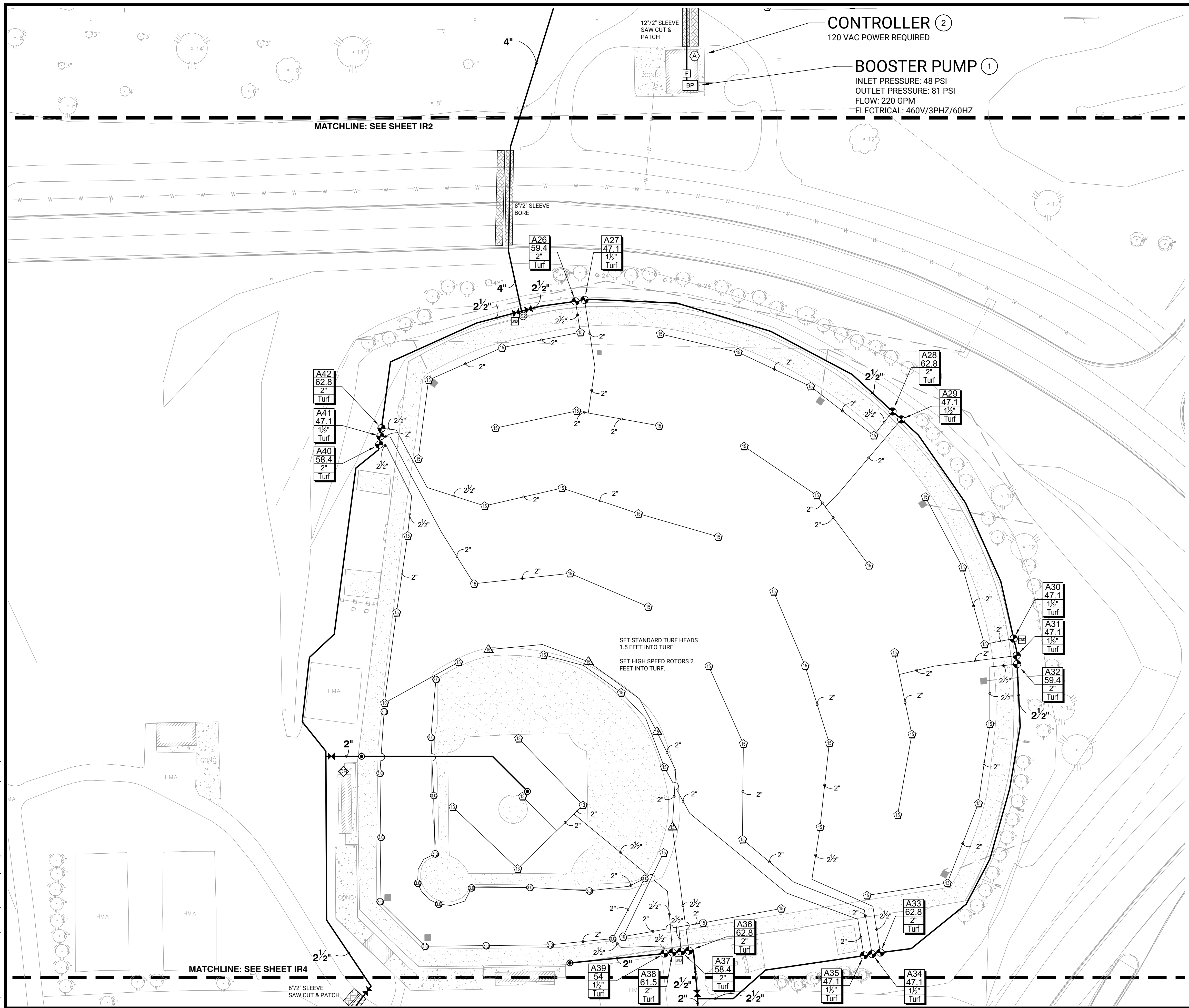
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ROCK VALLEY COLLEGE
 ROCKFORD, ILLINOIS
 IRRIGATION PLAN

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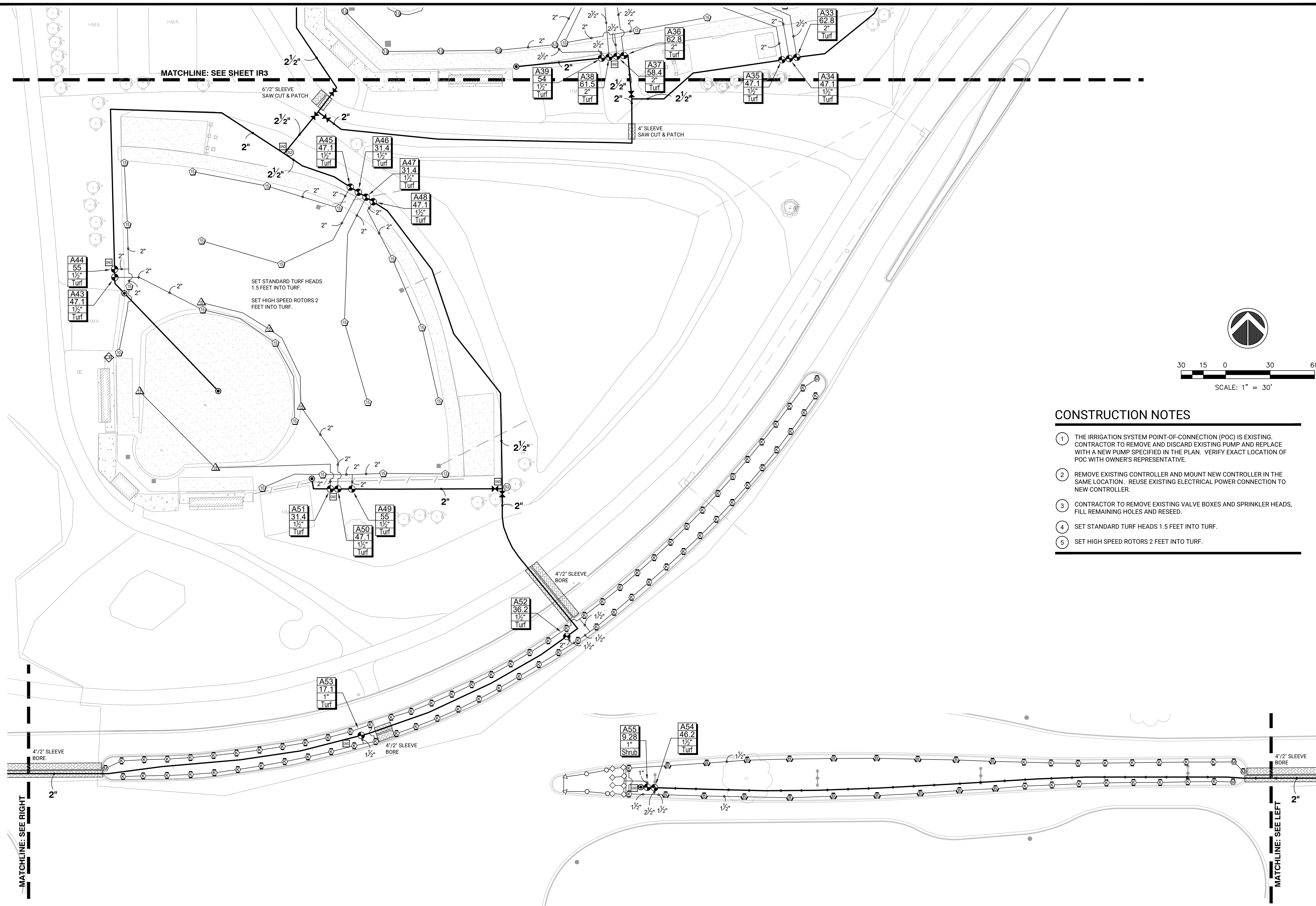
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ROCK VALLEY COLLEGE
 ROCKFORD, ILLINOIS
 IRRIGATION PLAN

- CONSTRUCTION NOTES**
- 1 THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) IS EXISTING. CONTRACTOR TO REMOVE AND DISCARD EXISTING PUMP AND REPLACE WITH A NEW PUMP SPECIFIED IN THE PLAN. VERIFY EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE.
 - 2 REMOVE EXISTING CONTROLLER AND MOUNT NEW CONTROLLER IN THE SAME LOCATION. REUSE EXISTING ELECTRICAL POWER CONNECTION TO NEW CONTROLLER.
 - 3 CONTRACTOR TO REMOVE EXISTING VALVE BOXES AND SPRINKLER HEADS. FILL REMAINING HOLES AND RESEED.
 - 4 SET STANDARD TURF HEADS 1.5 FEET INTO TURF.
 - 5 SET HIGH SPEED ROTORS 2 FEET INTO TURF.

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CONSTRUCTION NOTES

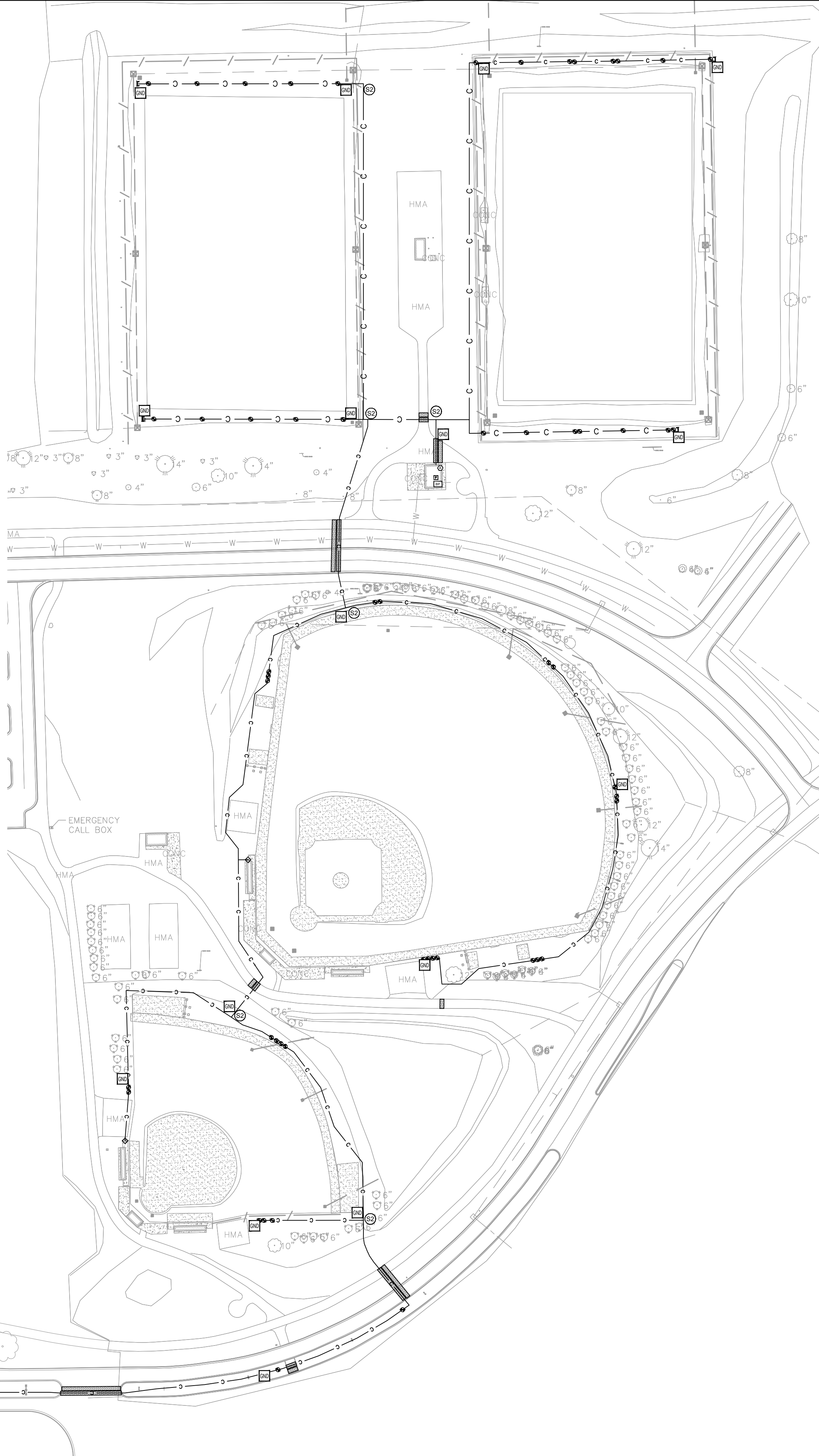
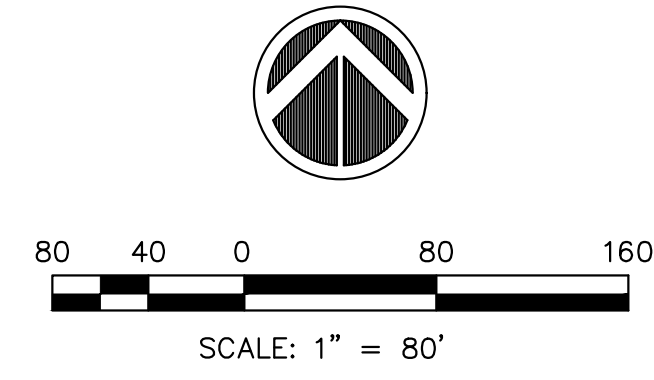
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- 5 SET HIGH SPEED ROTORS 2 FEET INTO TURF.

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ROCK VALLEY COLLEGE
 ROCKFORD, ILLINOIS
IRRIGATION PLAN

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IR4
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IRRIGATION LEGEND

- SLEEVES: CLASS 200 PVC
 - POINT-OF-CONNECTION ASSEMBLY
 - MAINLINE PIPE: CLASS 200 PVC SIZED PER PLAN
 - LATERAL PIPE TO SPRINKLERS: CLASS 200 PVC TO HUNTER I-40 SERIES ROTORS SDR 15 HDPE PIPE TO HUNTER I-20 ROTORS, SPRAYS AND MP NOZZLES
 - IRRIGATION CONTROL WIRES IN CONDUIT OR WITH WARNING TAPE
 - UNCONNECTED PIPE CROSSING
 - REMOTE CONTROL VALVE ASSEMBLY FOR SPRINKLER LATERALS: HUNTER PGV (SIZED PER PLAN)
 - QUICK COUPLING VALVE ASSEMBLY: LEEMCO L2 QCV
 - ISOLATION GATE VALVE ASSEMBLY: LEEMCO
 - FLOW SENSOR ASSEMBLY: CONNECT TO PUMP STATION SHARED FLOW METER
-
- INDICATES CONTROLLER AND STATION NUMBER
 - INDICATES LATERAL DISCHARGE (GPM)
 - INDICATES VALVE SIZE (INCHES)
 - INDICATES LANDSCAPE APPLICATION
-
- IRRIGATION CONTROLLER UNIT WITH BASELINE 3200X W/ METAL WALL MOUNT
 - GROUNDING AND SURGE ARRESTOR ASSEMBLY:
 - IRRIGATION MAINLINE CAP ASSEMBLY
 - BOOSTER PUMP ASSEMBLY: SEE SHEET IR8 FOR DETAILS
 - DECODER CABLE FUSE DEVICE (DCFD) WITH LIGHTNING PROTECTION
 - COACH'S BUTTON
-
- POP-UP SPRAY SPRINKLER: HUNTER PRS-12-PRS30-CV W/ ADJUSTABLE NOZZLE
PRESSURE: 30 PSI RADIUS: 5 FEET TO 15 FEET
FLOW (GPM): 08A-0.44 10A-0.50 12A-0.32 15A-0.47
 - POP-UP ROTATING SPRAY SPRINKLER: HUNTER PRS-06-PRS40-CV W/MP1000 NOZZLES
PRESSURE: 40 PSI RADIUS: 8 FEET TO 15 FEET
FLOW (GPM): M-0.42 L-0.63 O-0.84
 - POP-UP ROTATING SPRAY SPRINKLER: HUNTER PRS-06-PRS40-CV W/MP2000 NOZZLES
PRESSURE: 40 PSI RADIUS: 13 FEET TO 21 FEET
FLOW (GPM): K-0.77 G-1.10 R-1.48
 - POP-UP ROTATING SPRAY SPRINKLER: HUNTER PRS-06-PRS40-CV W/MP3000 NOZZLES
PRESSURE: 40 PSI RADIUS: 22 FEET TO 30 FEET
FLOW (GPM): B-1.82 Y-2.73 A-3.64
-
- | POP-UP GEAR DRIVEN ROTORS: HUNTER I-20-06-PRB | | |
|---|--------|---------|
| PRESSURE: 45 PSI | | |
| NOZZLE | RADIUS | FLOW |
| 1.5 | 31' | 1.5 GPM |
| 2.0 | 34' | 2.0 GPM |
| 2.5 | 35' | 2.5 GPM |
| 3.0 | 38' | 3.0 GPM |
| 4.0 | 40' | 4.0 GPM |
| 5.0 | 42' | 5.0 GPM |
| 6.0 | 43' | 6.0 GPM |
| 8.0 | 44' | 8.0 GPM |
-
- | POP-UP GEAR DRIVEN ROTORS: HUNTER I-40-06-SS | | |
|--|--------|----------|
| PRESSURE: 60 PSI | | |
| NOZZLE | RADIUS | FLOW |
| 8 | 46' | 9.2 GPM |
| 10 | 50' | 11.3 GPM |
| 13 | 51' | 12.3 GPM |
| 15 | 55' | 15.7 GPM |
| 23 | 62' | 21.3 GPM |
| 25 | 66' | 23.9 GPM |
-
- | POP-UP GEAR DRIVEN ROTORS: HUNTER I-40-04-SS-HS | | |
|---|--------|----------|
| PRESSURE: 60 PSI | | |
| NOZZLE | RADIUS | FLOW |
| 8 | 46' | 9.2 GPM |
| 10 | 50' | 11.3 GPM |
| 13 | 51' | 12.3 GPM |
| 15 | 55' | 15.7 GPM |
| 23 | 62' | 21.3 GPM |
| 25 | 66' | 23.9 GPM |

CONSTRUCTION NOTES

- 1 THE IRRIGATION SYSTEM POINT-OF-CONNECTION (POC) IS EXISTING. CONTRACTOR TO REMOVE AND DISCARD EXISTING PUMP AND REPLACE WITH A NEW PUMP SPECIFIED IN THE PLAN. VERIFY EXACT LOCATION OF POC WITH OWNER'S REPRESENTATIVE.
- 2 REMOVE EXISTING CONTROLLER AND MOUNT NEW CONTROLLER IN THE SAME LOCATION. REUSE EXISTING ELECTRICAL POWER CONNECTION TO NEW CONTROLLER.
- 3 CONTRACTOR TO REMOVE EXISTING VALVE BOXES AND SPRINKLER HEADS, FILL REMAINING HOLES AND RESEED.
- 4 SET STANDARD TURF HEADS 1.5 FEET INTO TURF.
- 5 SET HIGH SPEED ROTORS 2 FEET INTO TURF.

INSTALLATION GENERAL NOTES

1. THE SYSTEM DESIGN ASSUMES A STATIC PRESSURE FOR THE IRRIGATION SYSTEM OF 62psi, AT A DESIGN FLOW OF 220 GPM AT THE EXISTING 4-INCH IRRIGATION POINT-OF-CONNECTION (POC). TAP, METER, BACKFLOW PREVENTER, AND FLOW METER SHALL BE SIZED AS INDICATED IN THE DRAWING LEGEND. VERIFY PRESSURE AND FLOW ON SITE PRIOR TO CONSTRUCTION.
2. READ THOROUGHLY AND BECOME FAMILIAR WITH THE SPECIFICATIONS AND INSTALLATION DETAILS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
3. COORDINATE UTILITY LOCATES ("CALL BEFORE YOU DIG") OF UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION.
4. DO NOT PROCEED WITH THE INSTALLATION IF DISCREPANCIES IN CONSTRUCTION DETAILS, LEGEND, NOTES, OR SPECIFICATIONS ARE DISCOVERED, BRING ALL SUCH OBSTRUCTIONS OR DISCREPANCIES TO THE ATTENTION OF THE OWNER'S REPRESENTATIVE.
5. THE DRAWINGS ARE DIAGRAMMATIC. THEREFORE, THE FOLLOWING SHOULD BE NOTED:
 - A. ALTHOUGH IRRIGATION COMPONENTS MAY BE SHOWN OUTSIDE PLANTING AREAS FOR CLARITY, INSTALL IRRIGATION PIPE AND WIRING IN LANDSCAPED AREAS WHENEVER POSSIBLE.
 - B. TREE AND SHRUB LOCATIONS AS SHOWN ON LANDSCAPE PLANS TAKE PRECEDENCE OVER IRRIGATION EQUIPMENT LOCATIONS. AVOID CONFLICTS BETWEEN THE IRRIGATION SYSTEM, PLANTING MATERIALS, AND ARCHITECTURAL FEATURES.
 - C. USE ONLY STANDARD TEES AND ELBOW FITTINGS. USE OF TEES IN THE BULLNOSE CONFIGURATION, OR USE OF CROSS TYPE FITTINGS IS NOT ALLOWED.
6. SELECT NOZZLES FOR SPRAY AND ROTARY SPRINKLERS WITH ARCS WHICH PROVIDE COMPLETE AND ADEQUATE COVERAGE WITH MINIMUM OVERSPRAY FOR THE SITE CONDITIONS. CAREFULLY ADJUST THE RADIUS OF THROW AND ARC OF COVERAGE OF EACH ROTARY SPRINKLER TO PROVIDE THE BEST PERFORMANCE.
7. THE IRRIGATION CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF IRRIGATION SLEEVING. SLEEVES ARE REQUIRED FOR BOTH PIPING AND ELECTRICAL WIRING AT EACH HARDSCAPE CROSSING. COORDINATE
8. INSTALL ALL ELECTRICAL POWER TO THE IRRIGATION CONTROL SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE AND ALL APPLICABLE LOCAL ELECTRIC UTILITY CODES.
9. THE FOLLOWING SHOULD BE NOTED REGARDING PIPE SIZING: IF A SECTION OF UNSIZED PIPE IS LOCATED BETWEEN TWO IDENTICALLY SIZED SECTIONS, THE UNSIZED PIPE IS THE SAME NOMINAL SIZE AS THE TWO SIZED SECTIONS. THE UNSIZED PIPE SHOULD NOT BE CONFUSED WITH THE DEFAULT PIPE SIZE NOTED IN THE LEGEND.
10. IRRIGATION CONTRACTOR TO INSTALL PAIGE DECODER CABLE FUSE DEVICES (DCFD), AT ALL DECODER CABLE DIRECTIONAL SPLITS AND/OR CHANGES. INSTALL ALL SPLICES WITHIN A 10' VALVE BOX.

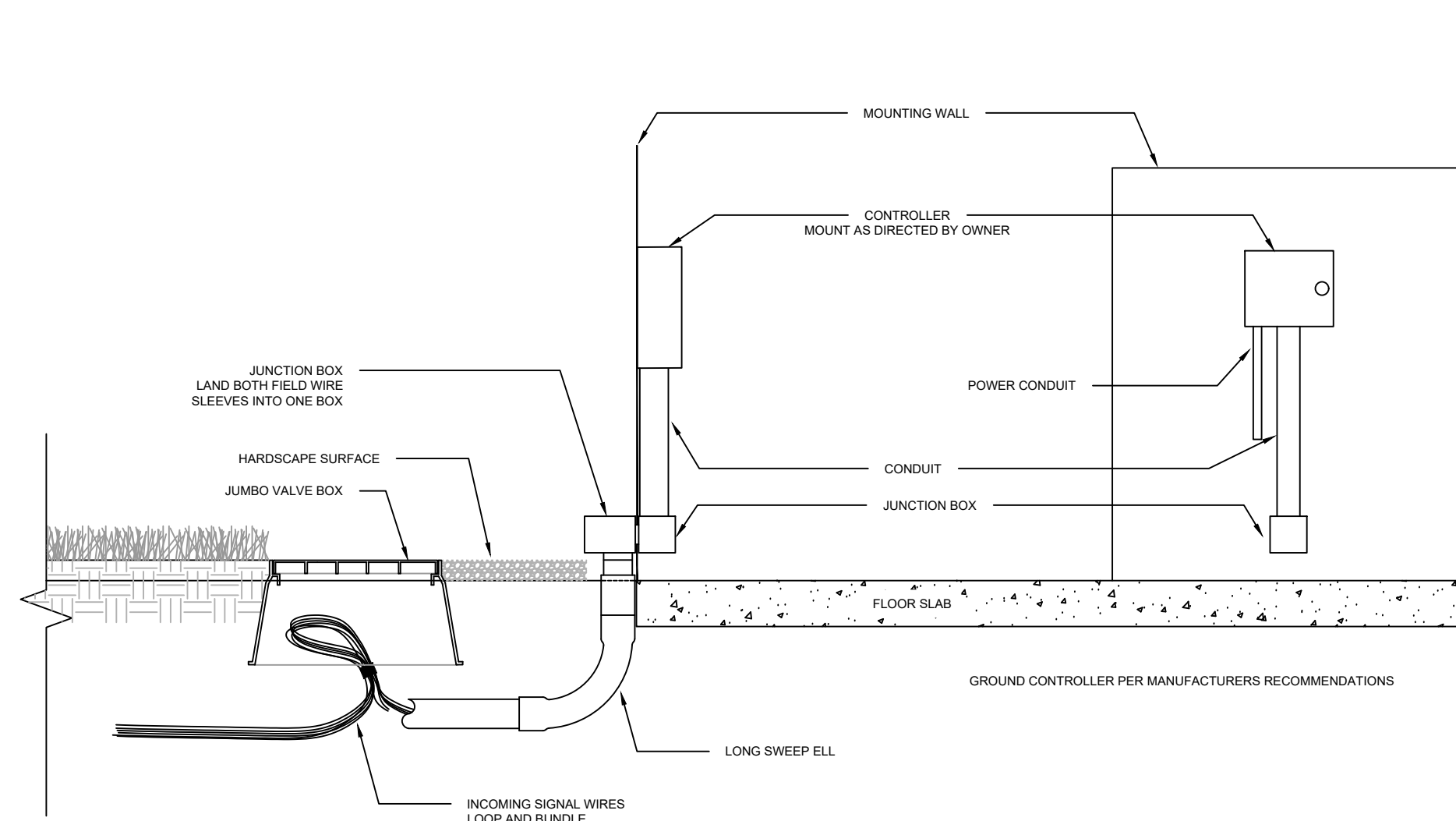
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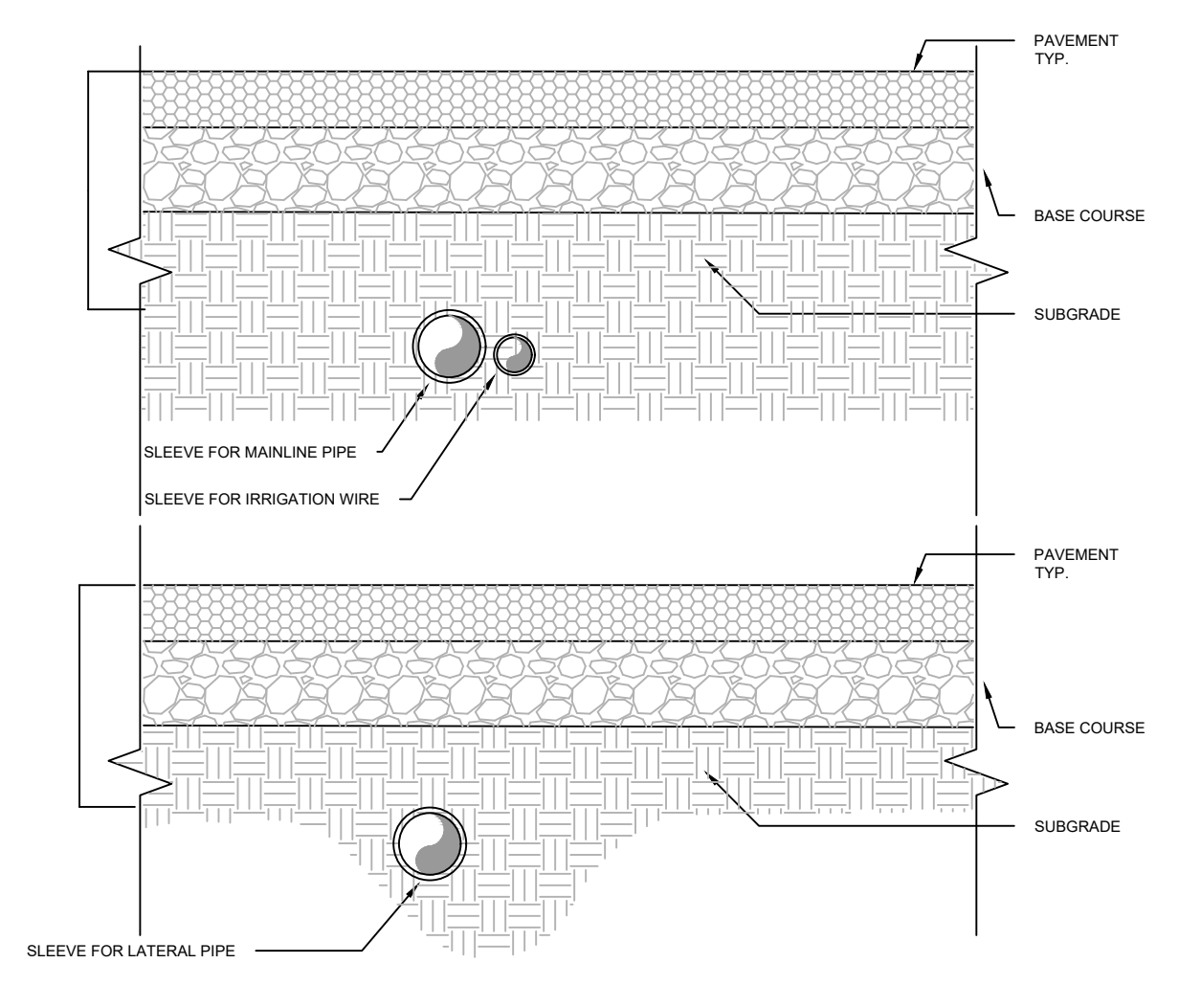
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SUITE 122
SCOTTSDALE, ARIZONA 85251
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www.imegcorp.com

ROCK VALLEY COLLEGE
ROCKFORD, ILLINOIS
OVERALL IRRIGATION TWO
WIRE SCHEMATIC

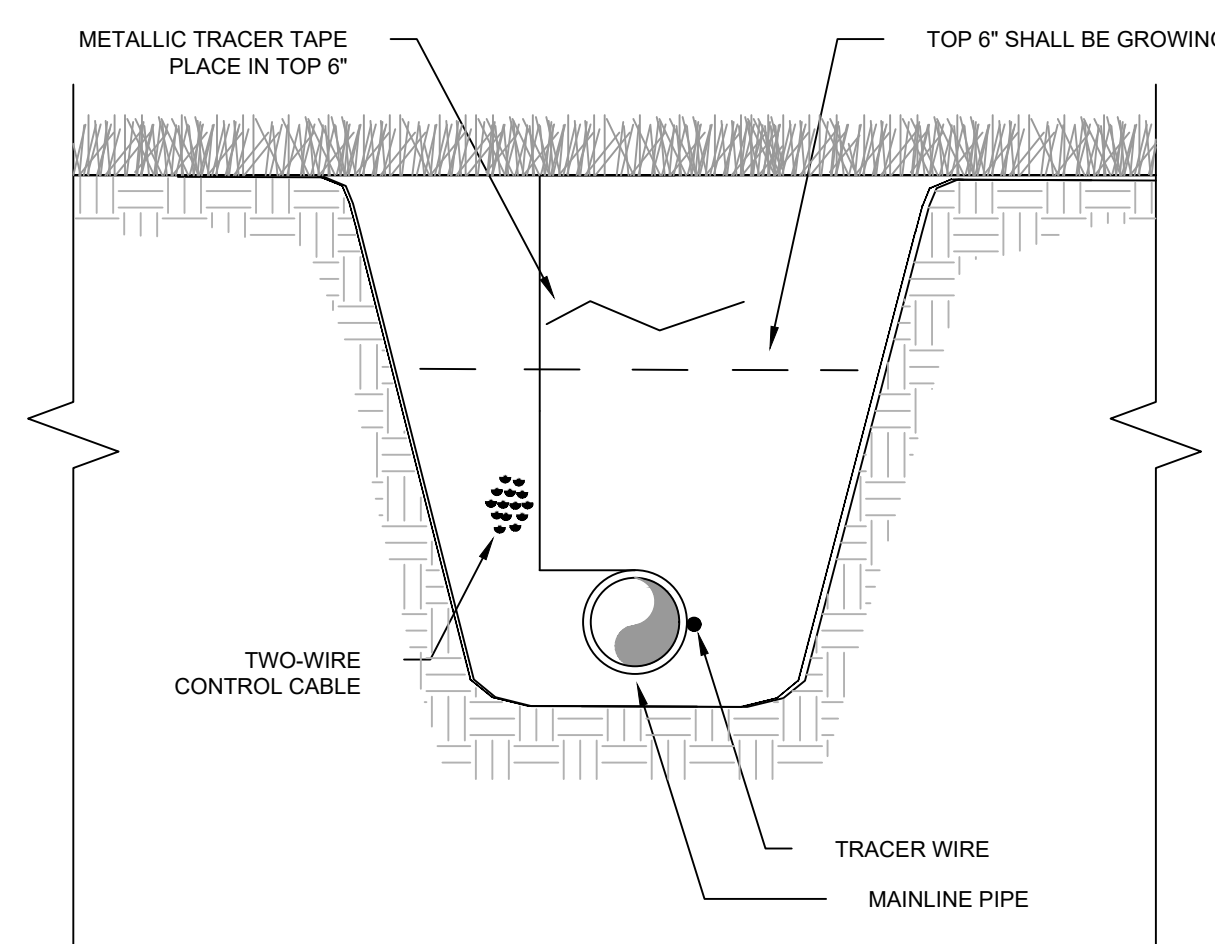
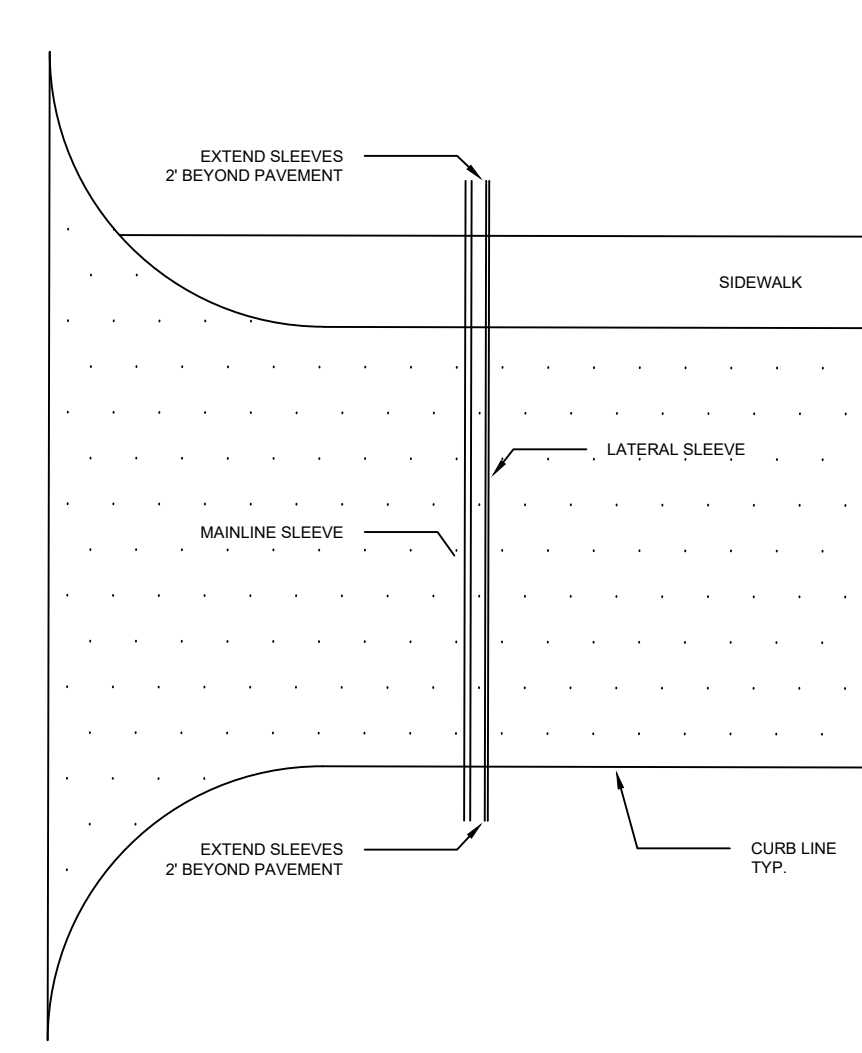
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IR5
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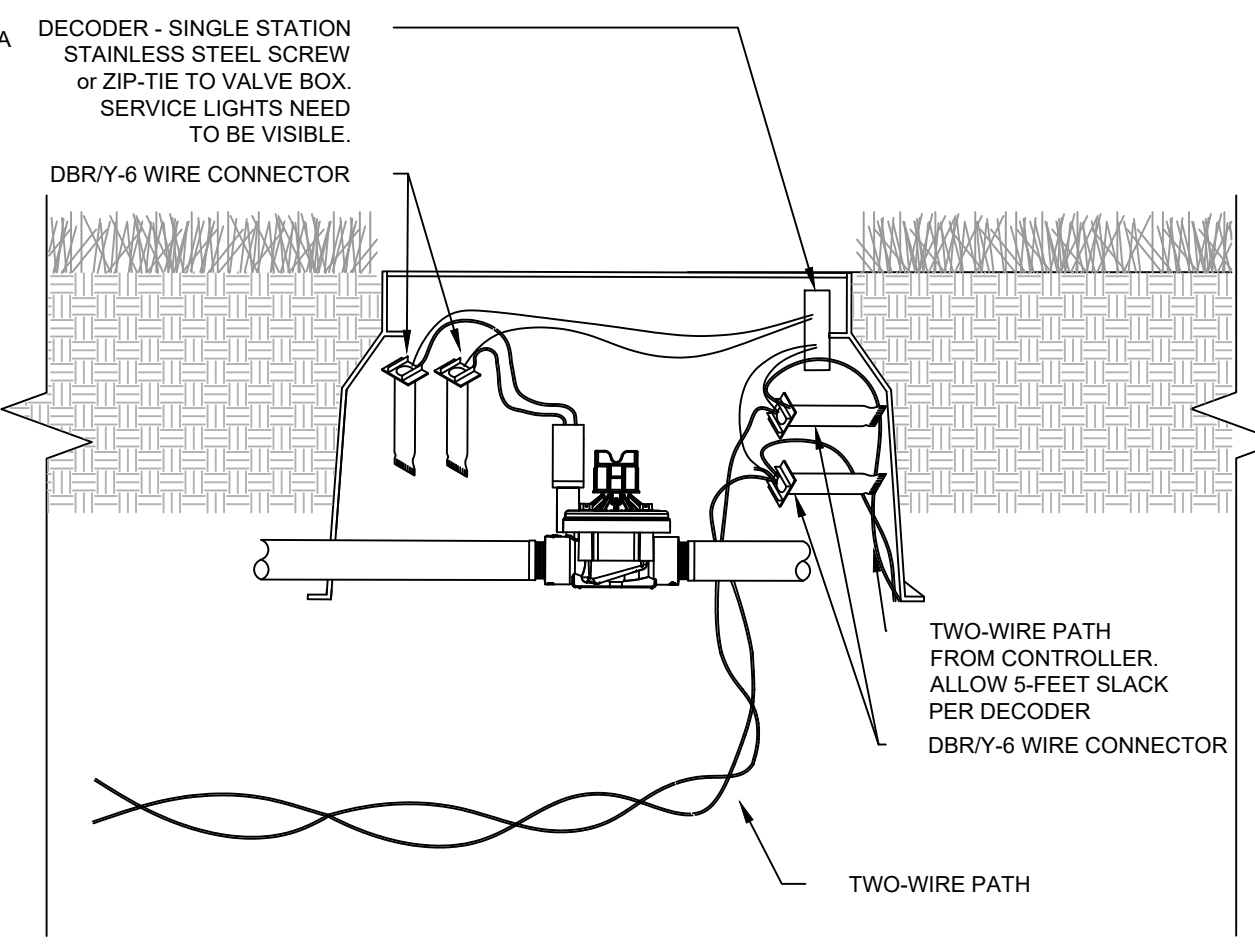
1 DIAGRAM - IRRIGATION CONTROLLER MOUNTING
NTS



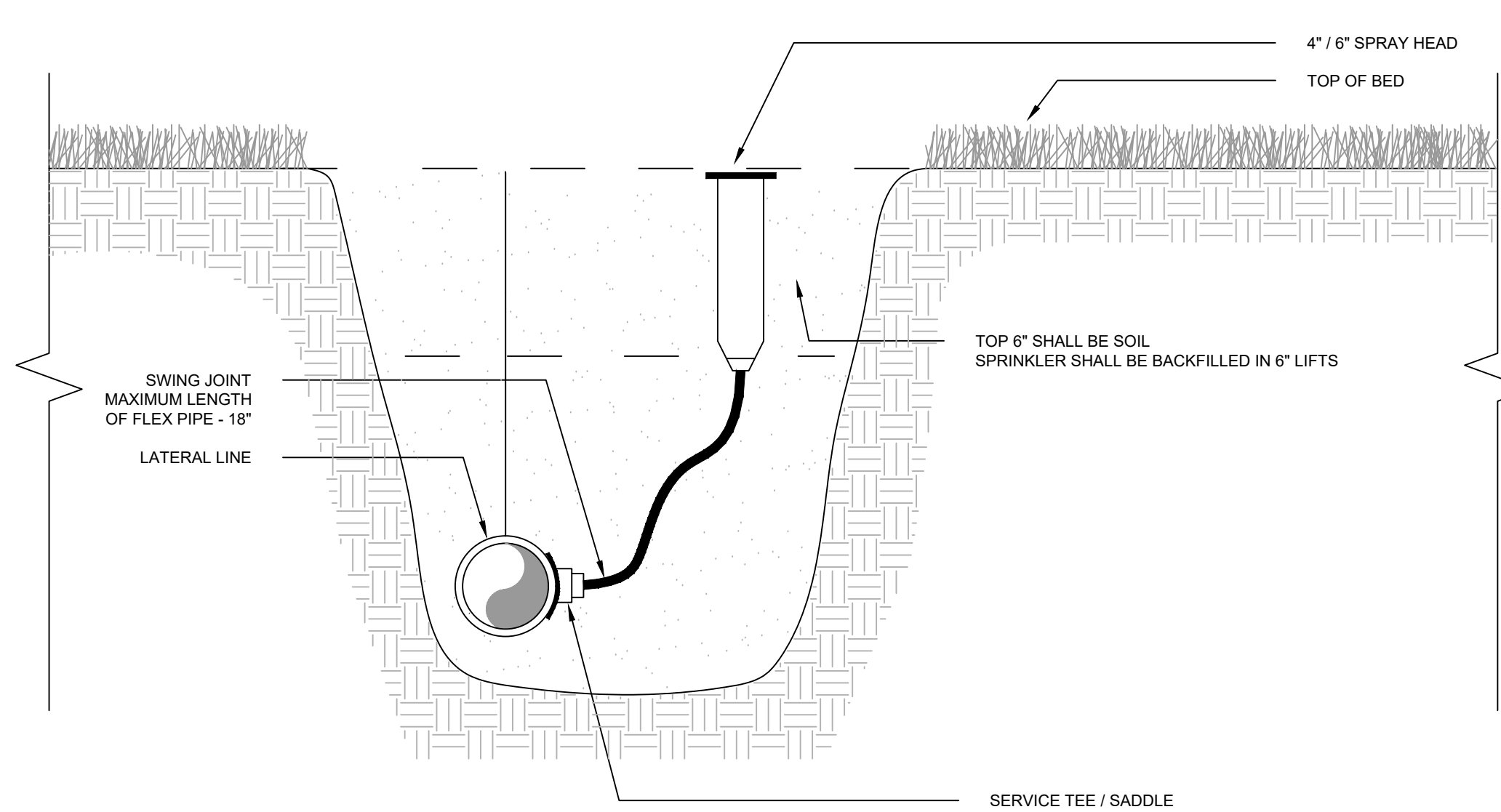
2 SLEEVING
NTS



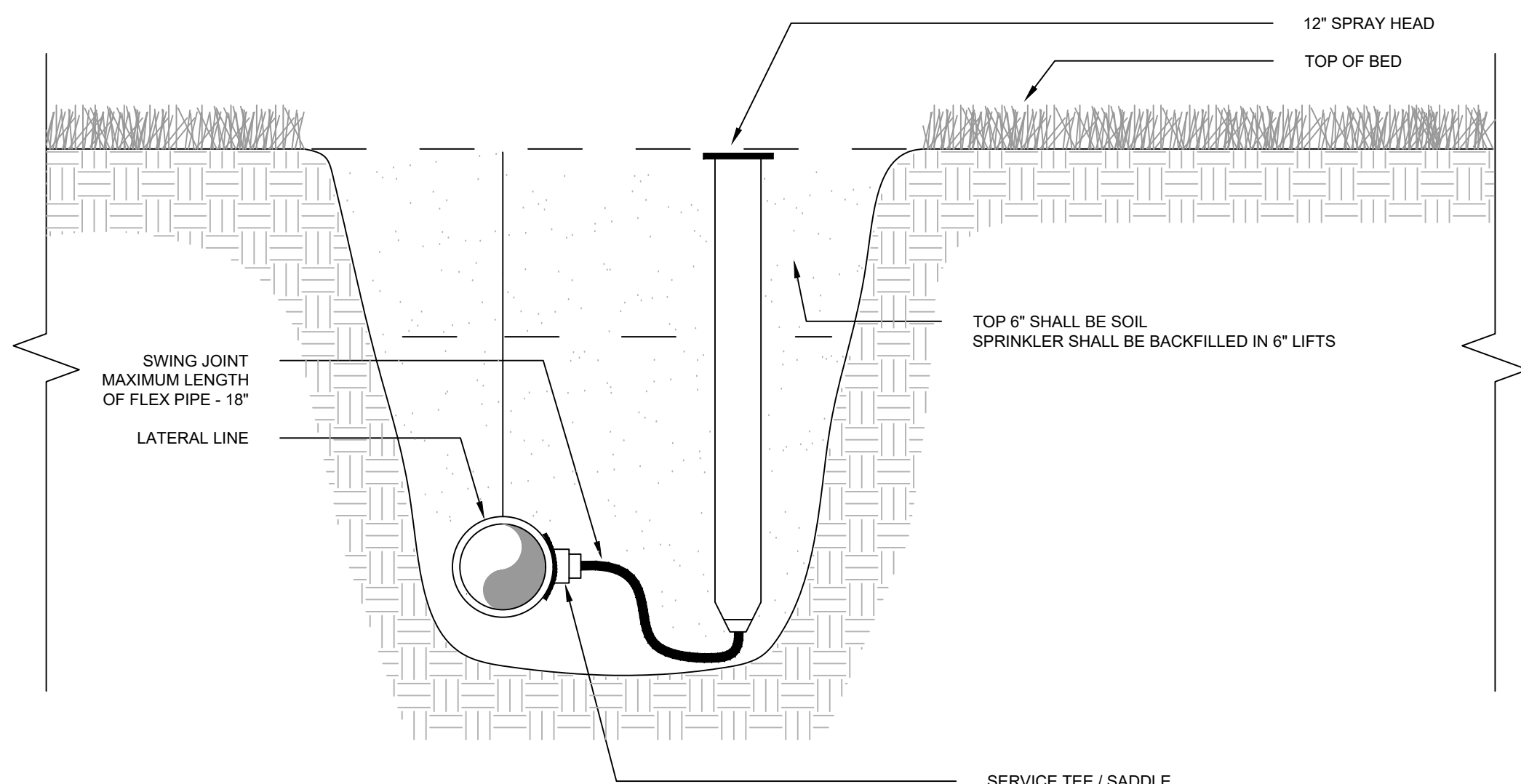
3 WIRE TRENCH
NTS



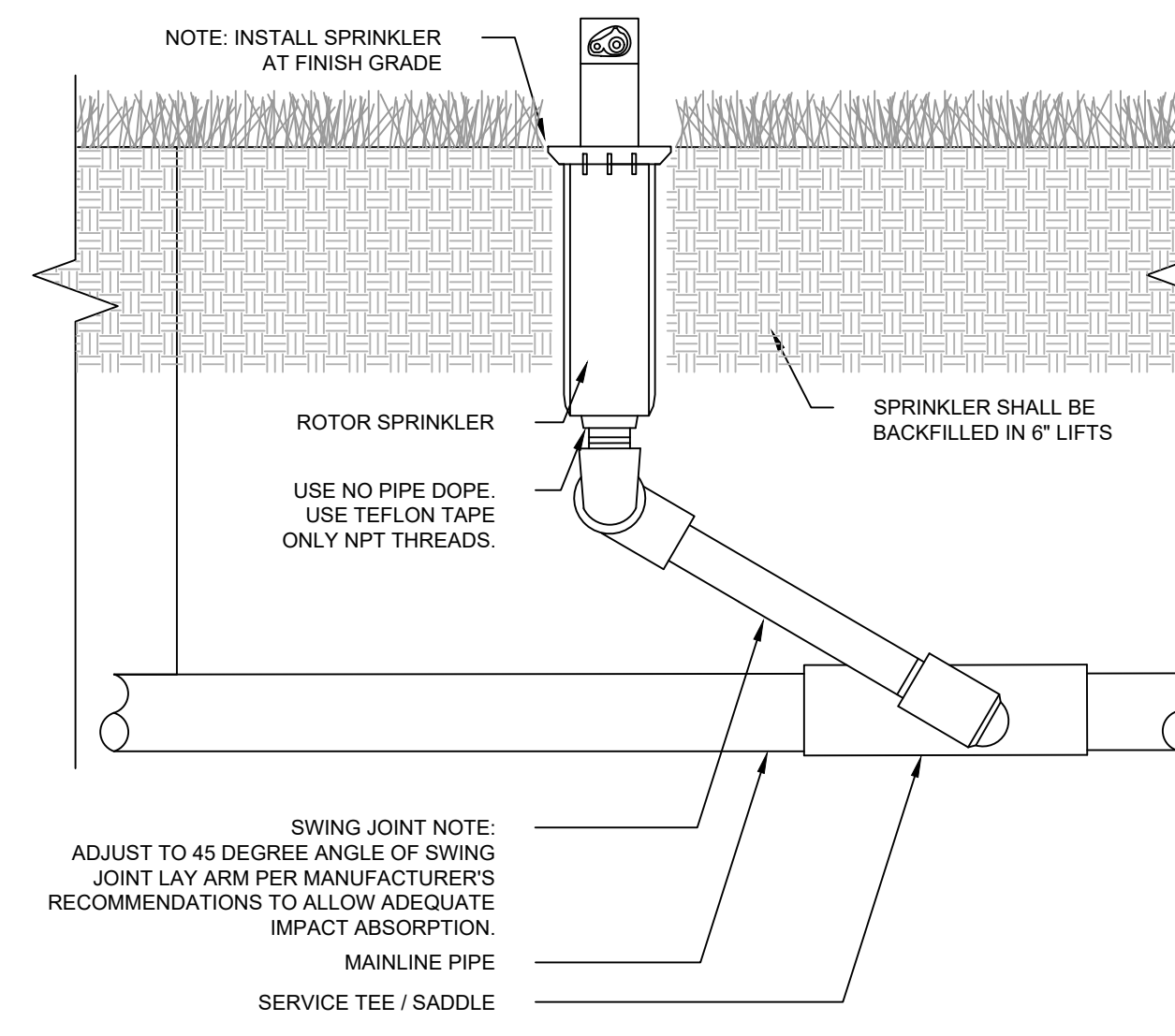
4 ELECTRIC VALVE with DECODER
NTS



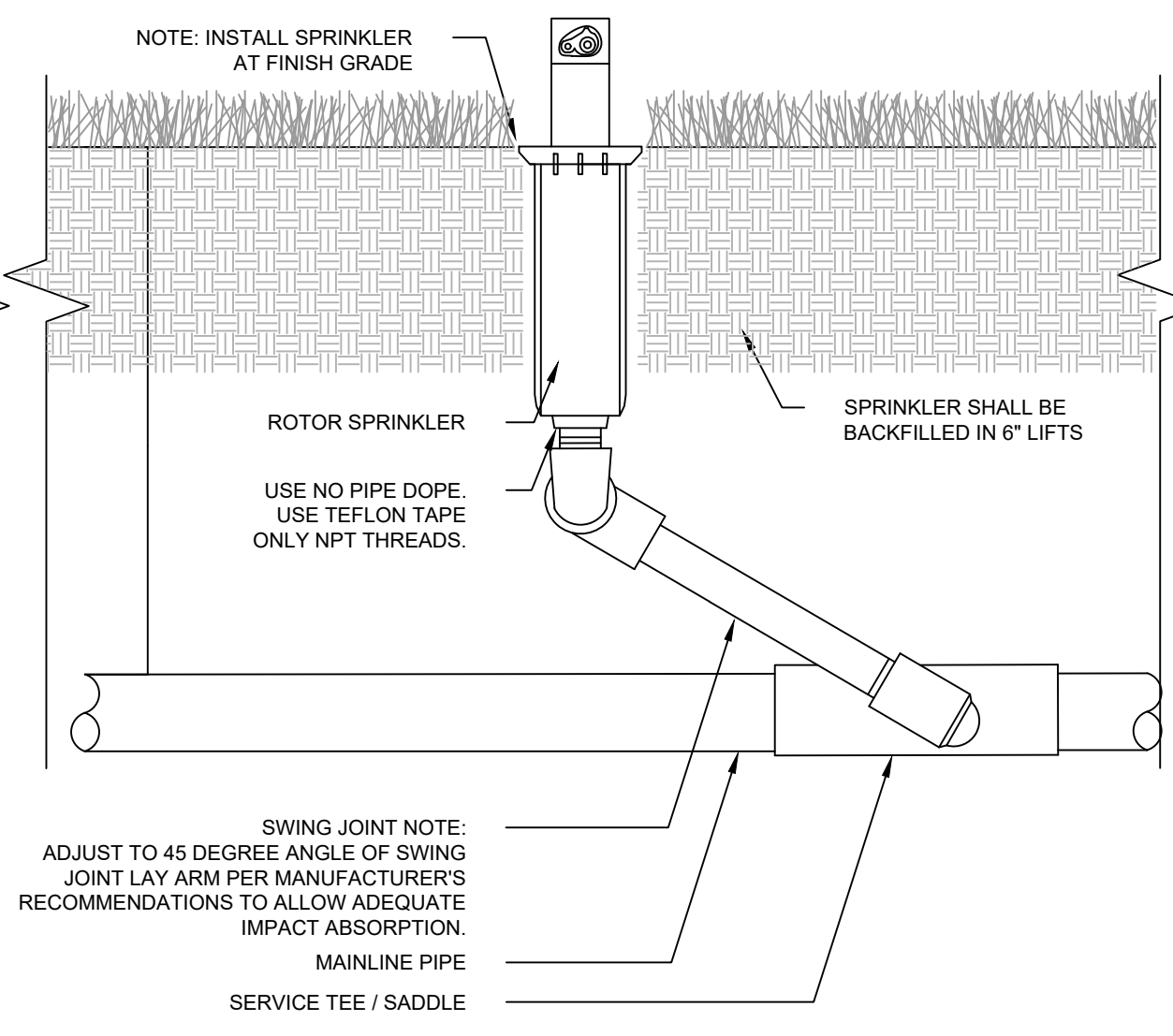
5 6" SPRAY HEAD or MP NOZZLE
NTS



6 12" SPRAY HEAD
NTS

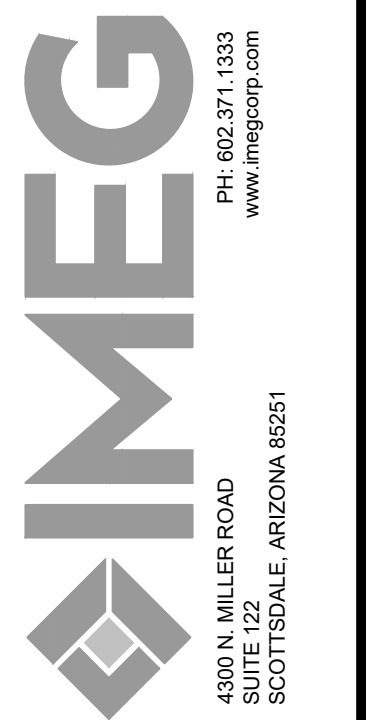


7 I-20 6" ROTOR
NTS



8 I-40 6" ROTOR
NTS

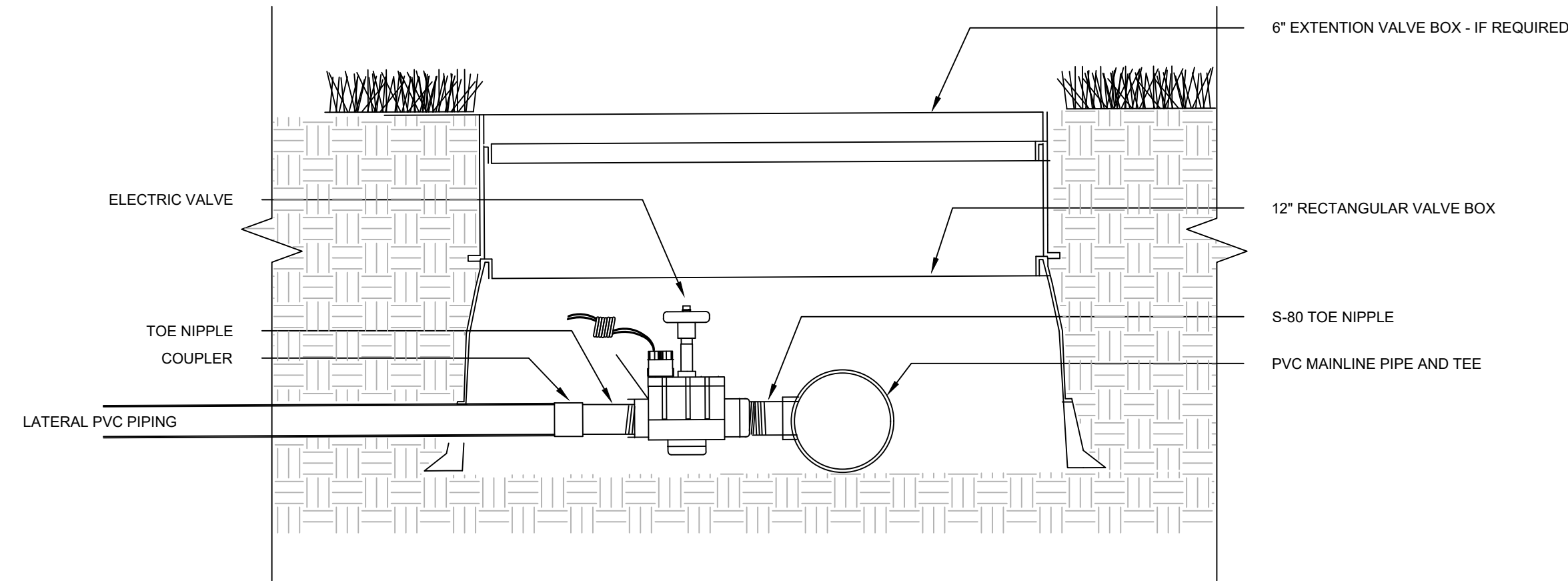
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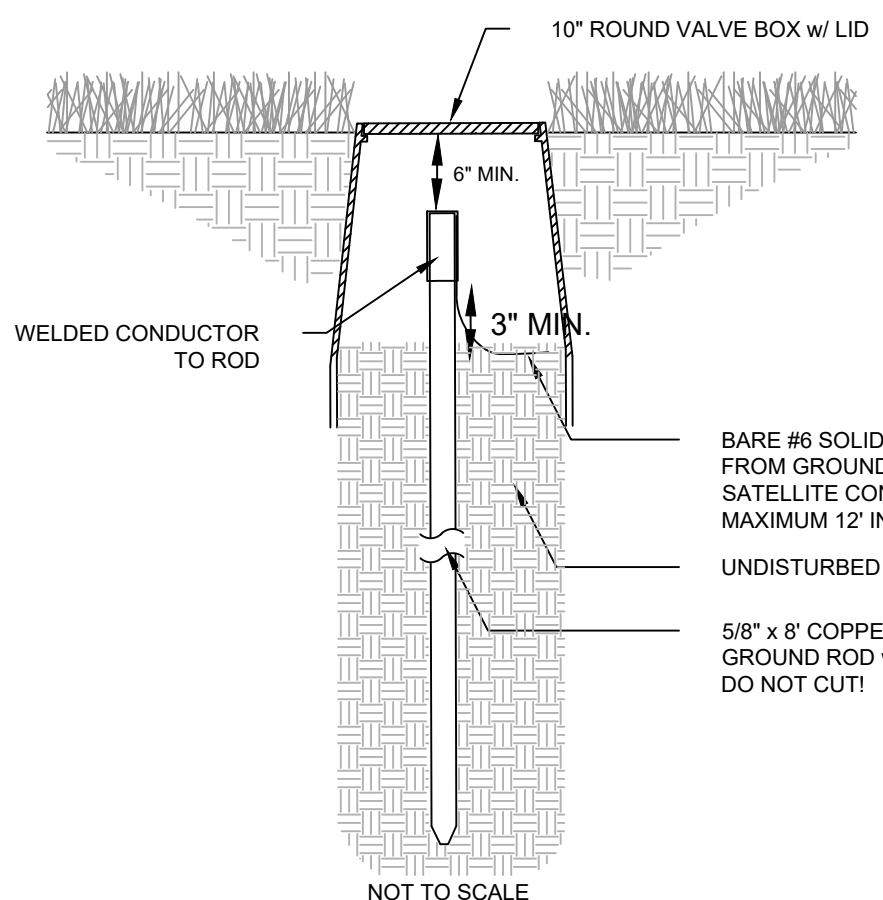
ROCK VALLEY COLLEGE
ROCKFORD, ILLINOIS
IRRIGATION DETAILS

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9 ELECTRIC VALVE
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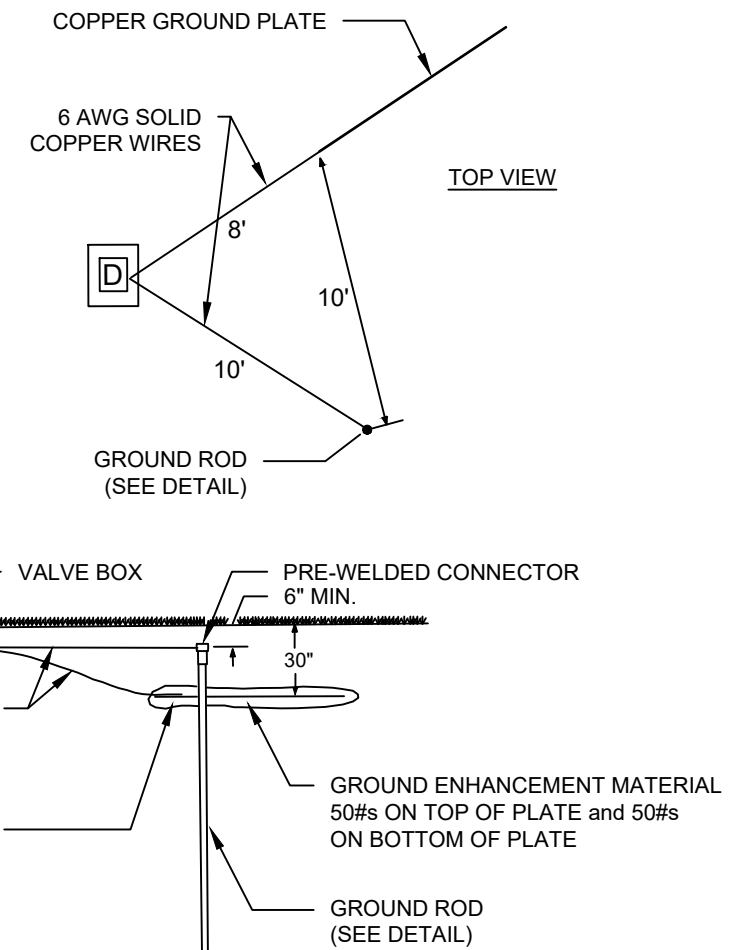
EARTH GROUNDING

IT IS THE RESPONSIBILITY OF THE INSTALLER TO CONNECT ALL ELECTRONIC IRRIGATION EQUIPMENT FOR WHICH THEY ARE RESPONSIBLE TO EARTH GROUND. GROUNDING COMPONENTS WILL INCLUDE THE ITEMS DESCRIBED IN THE FOLLOWING PARAGRAPH, AT A MINIMUM.

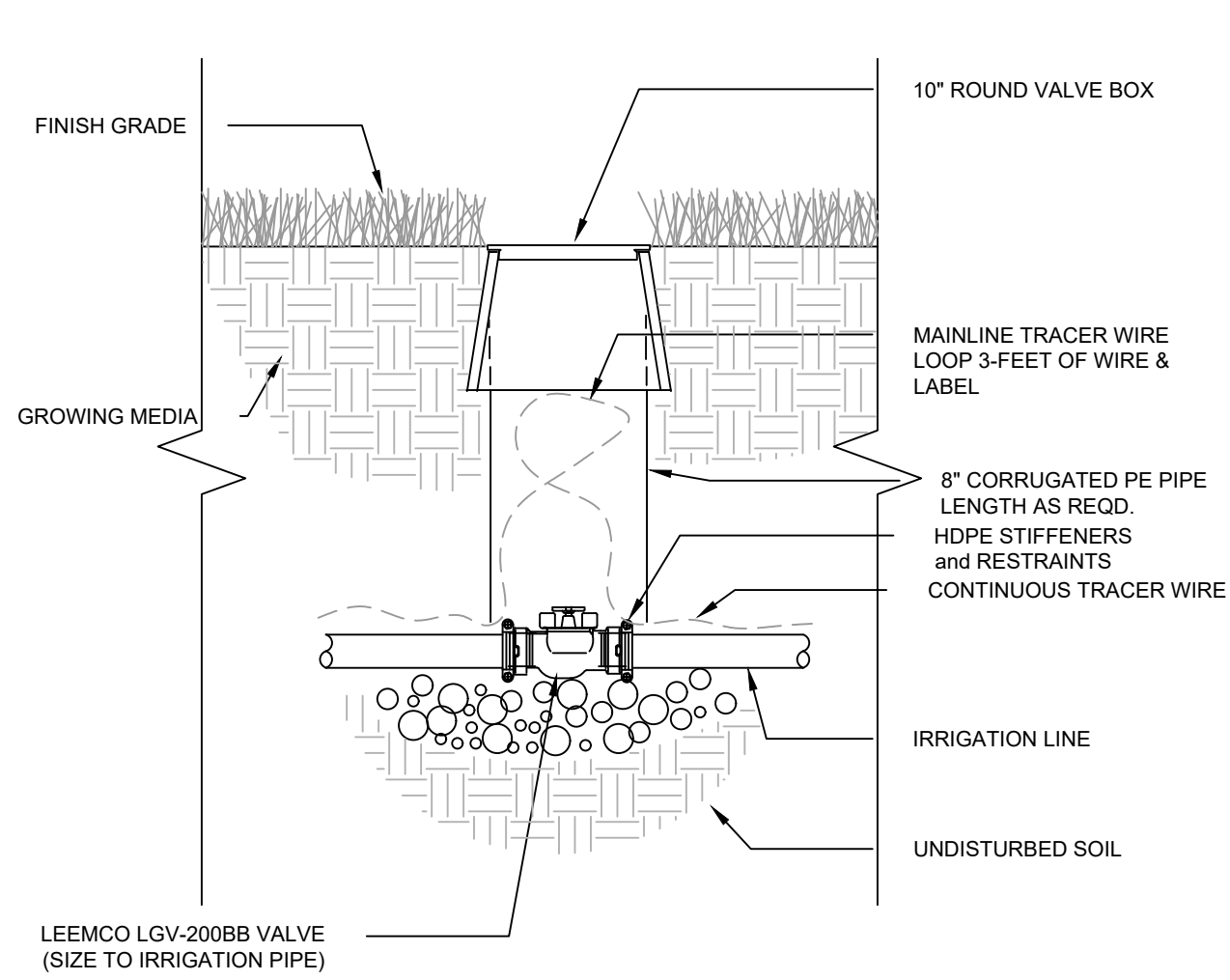
AT THE VERY MINIMUM, THE GROUNDING CIRCUIT WILL INCLUDE A COPPER CLAD STEEL GROUND ROD, A SOLID COPPER GROUND PLATE, AND 100 POUNDS OF GEM EARTH CONTACT MATERIAL AS DEFINED PER THE FOLLOWING DETAIL.

CONTRACTOR TO PROVIDE WRITTEN VERIFICATION FROM THE PRODUCT DISTRIBUTOR THAT THE GROUND WAS "MEGGED" AND THE OHMS ARE WITHIN THE ACCEPTABLE LIMITS.

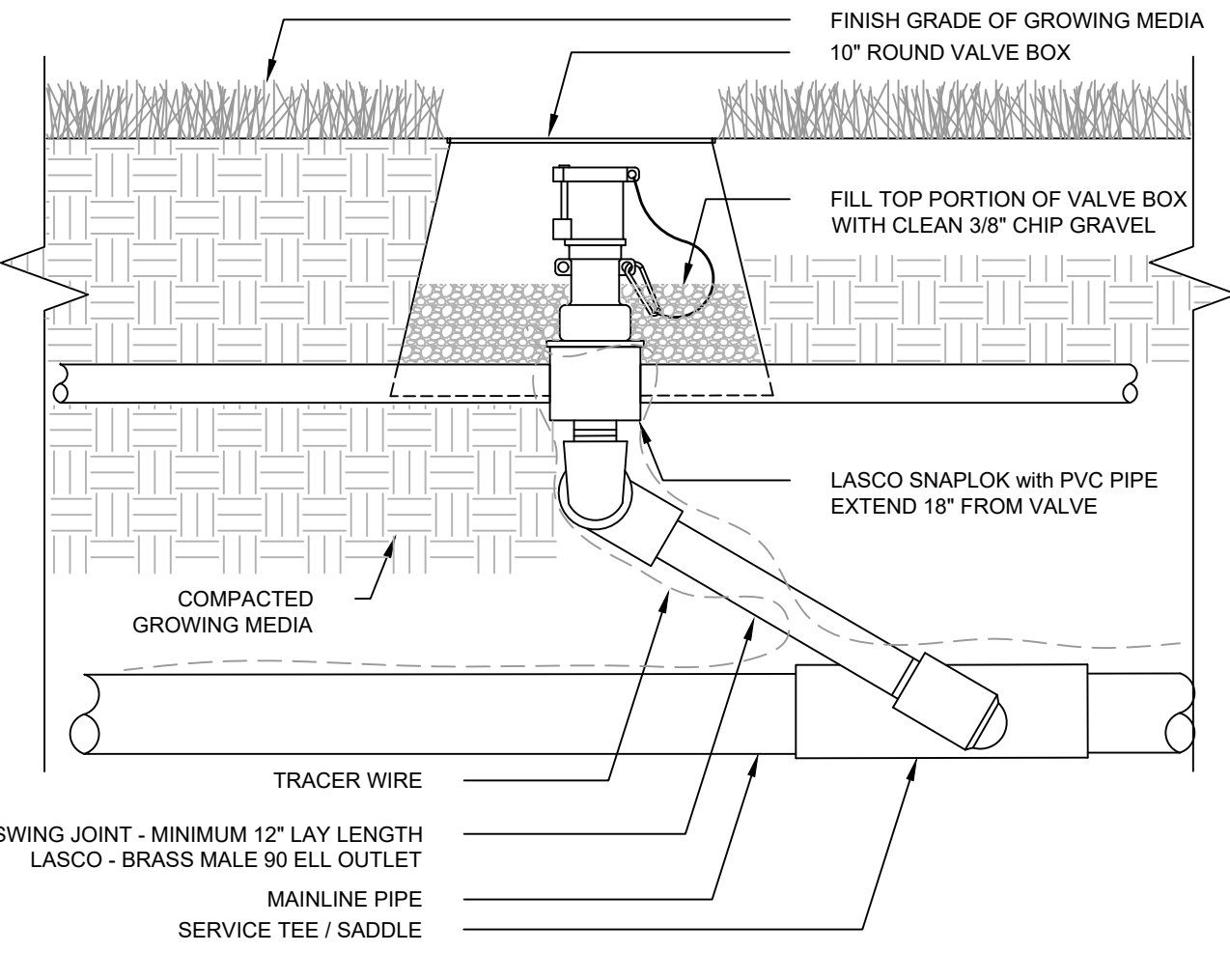
NOTE: GROUNDING PLATE AND ALL OTHER RELATED MATERIALS BY PAIGE ELECTRIC CO. OR APPROVED EQUAL.



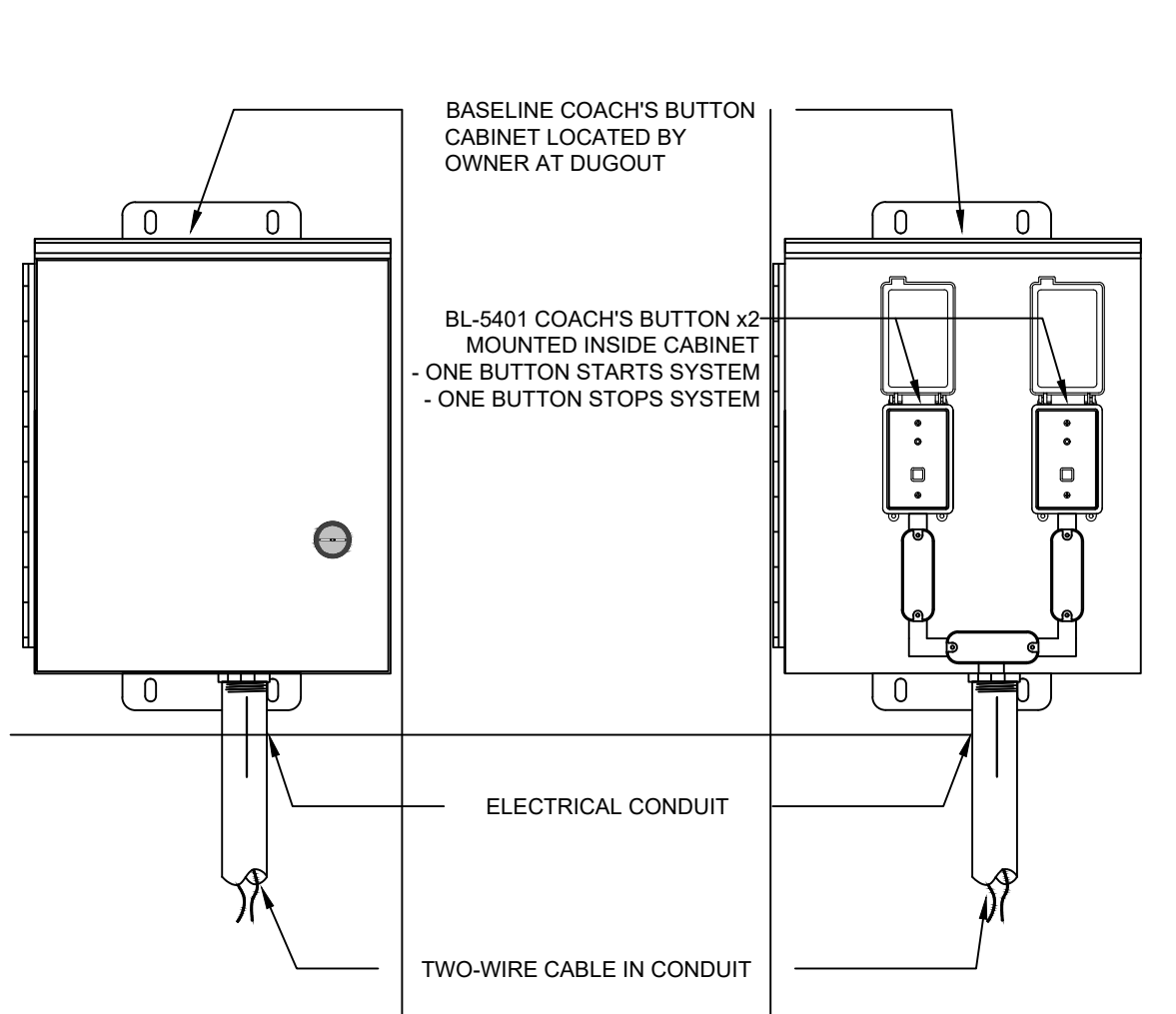
10 GROUNDING SCHEMATIC
NTS



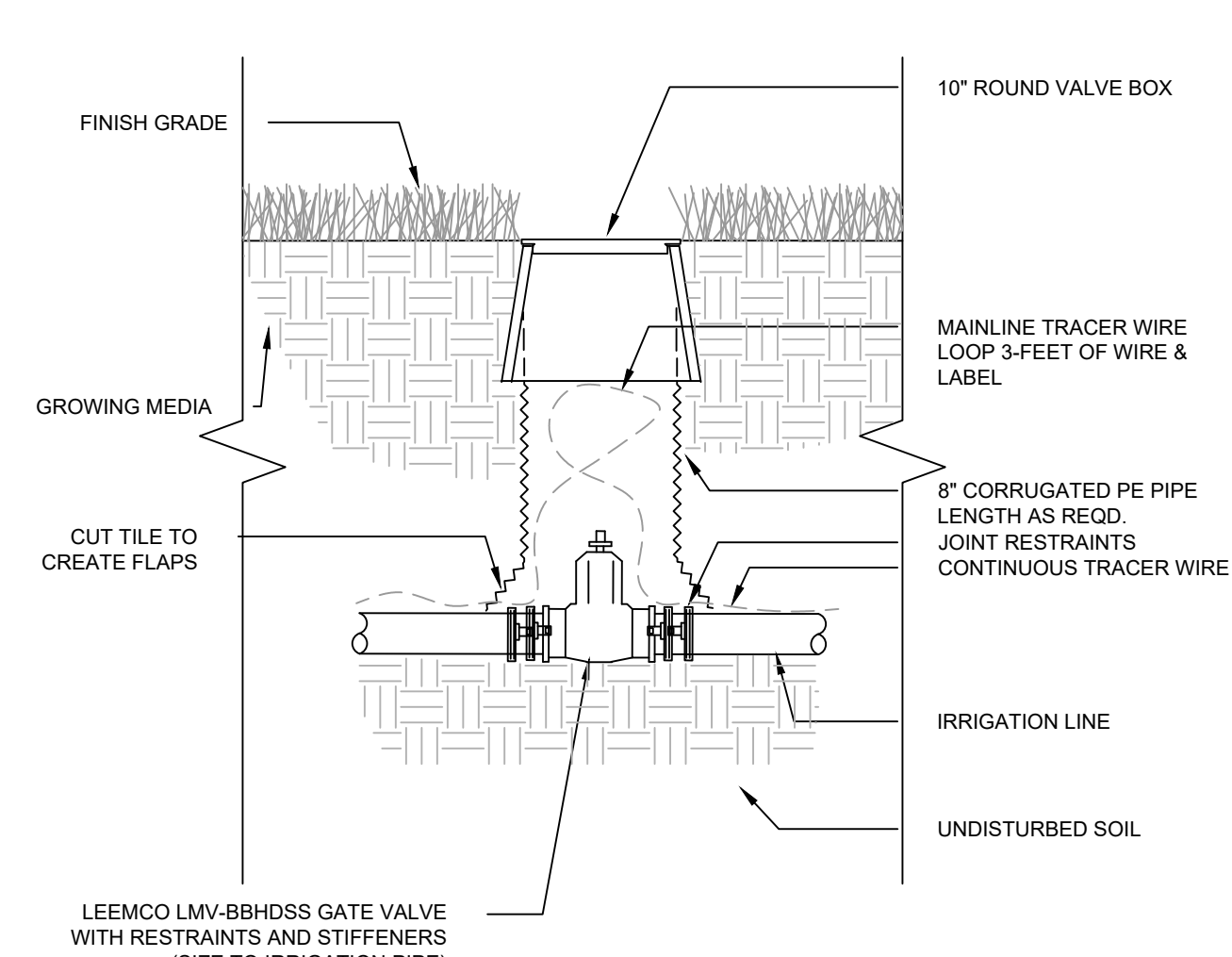
11 ISOLATION VALVE - 2", 2.5", and 3"
NTS



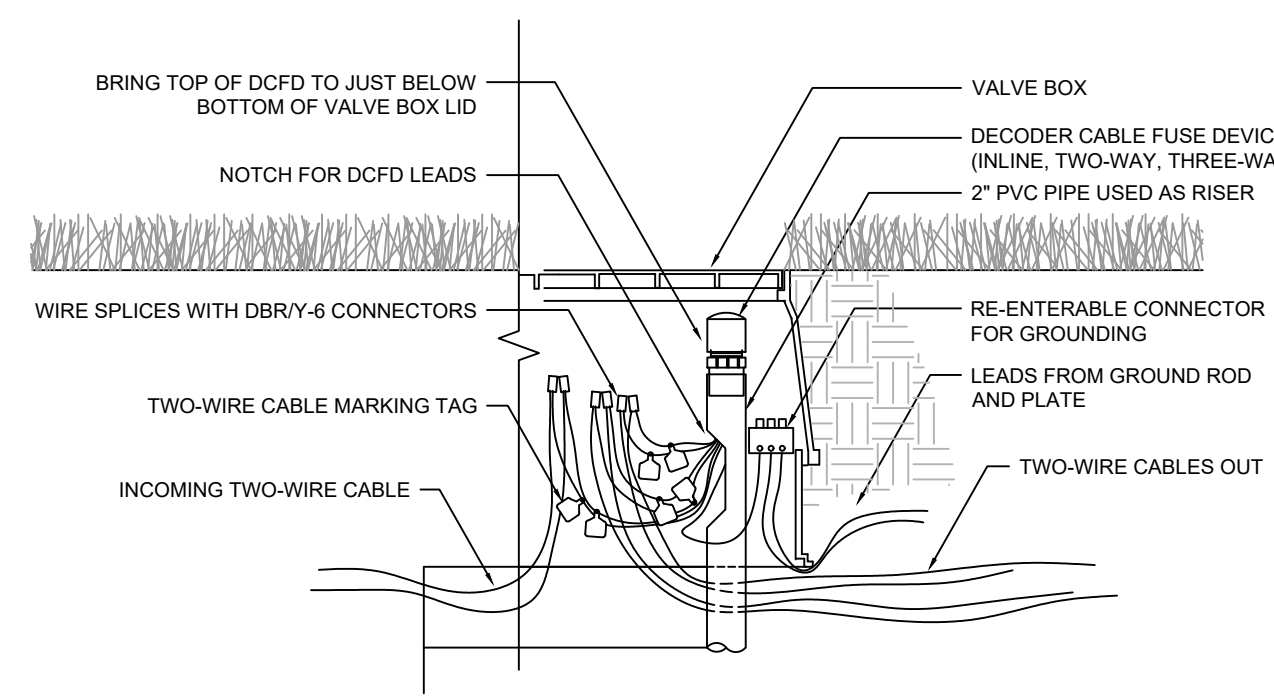
12 QUICK COUPLER VALVE
NTS



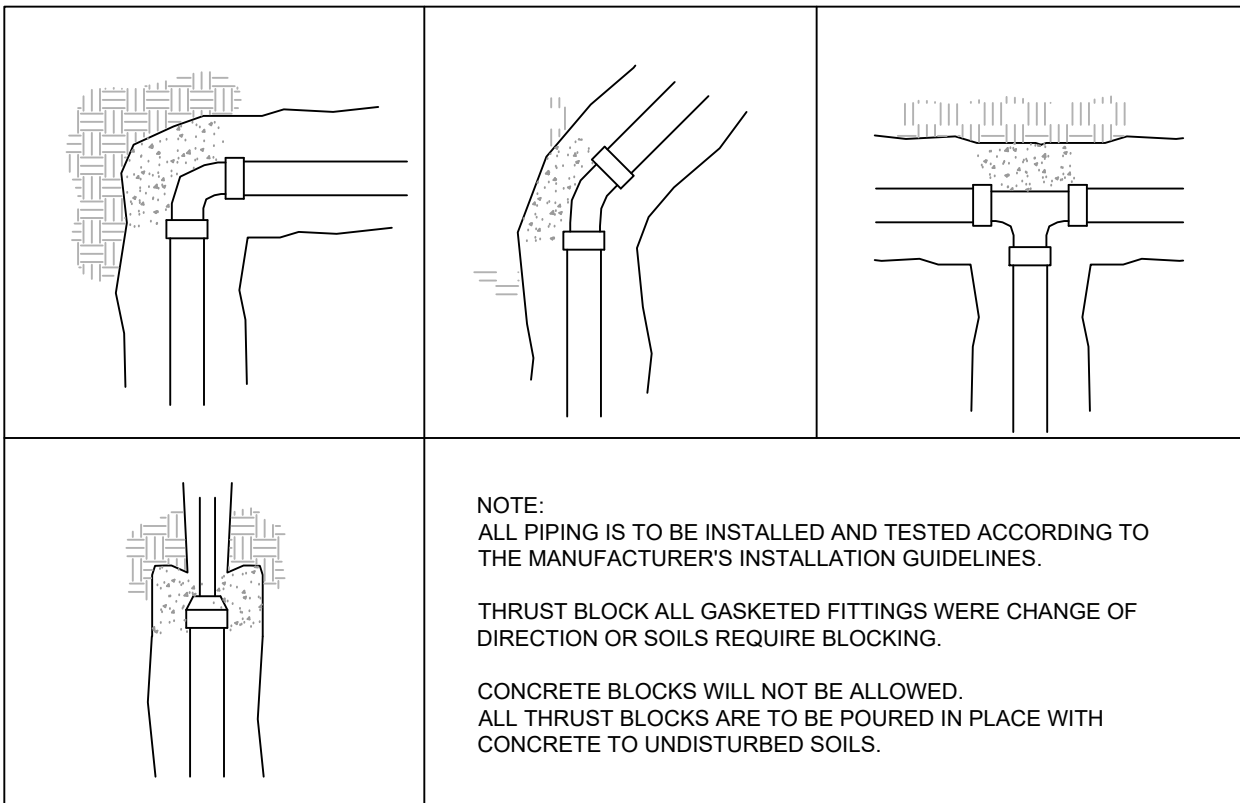
13 COACH'S BUTTON
NTS



14 PUSH-ON GATE VALVE - 4" and LARGER
NTS



15 DECODER CABLE FUSE DEVICE
NTS



16 DIAGRAM - THRUST BLOCKS
NTS

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ROCK VALLEY COLLEGE
ROCKFORD, ILLINOIS
IRRIGATION DETAILS

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IR7
Sheet 7 of 8

PUMP STATION SPECIFICATIONS:

BASIS OF DESIGN: WATERTRONICS VC SERIES
CONTACT ERIC PIFER @ 262-224-3263 FOR PRICING

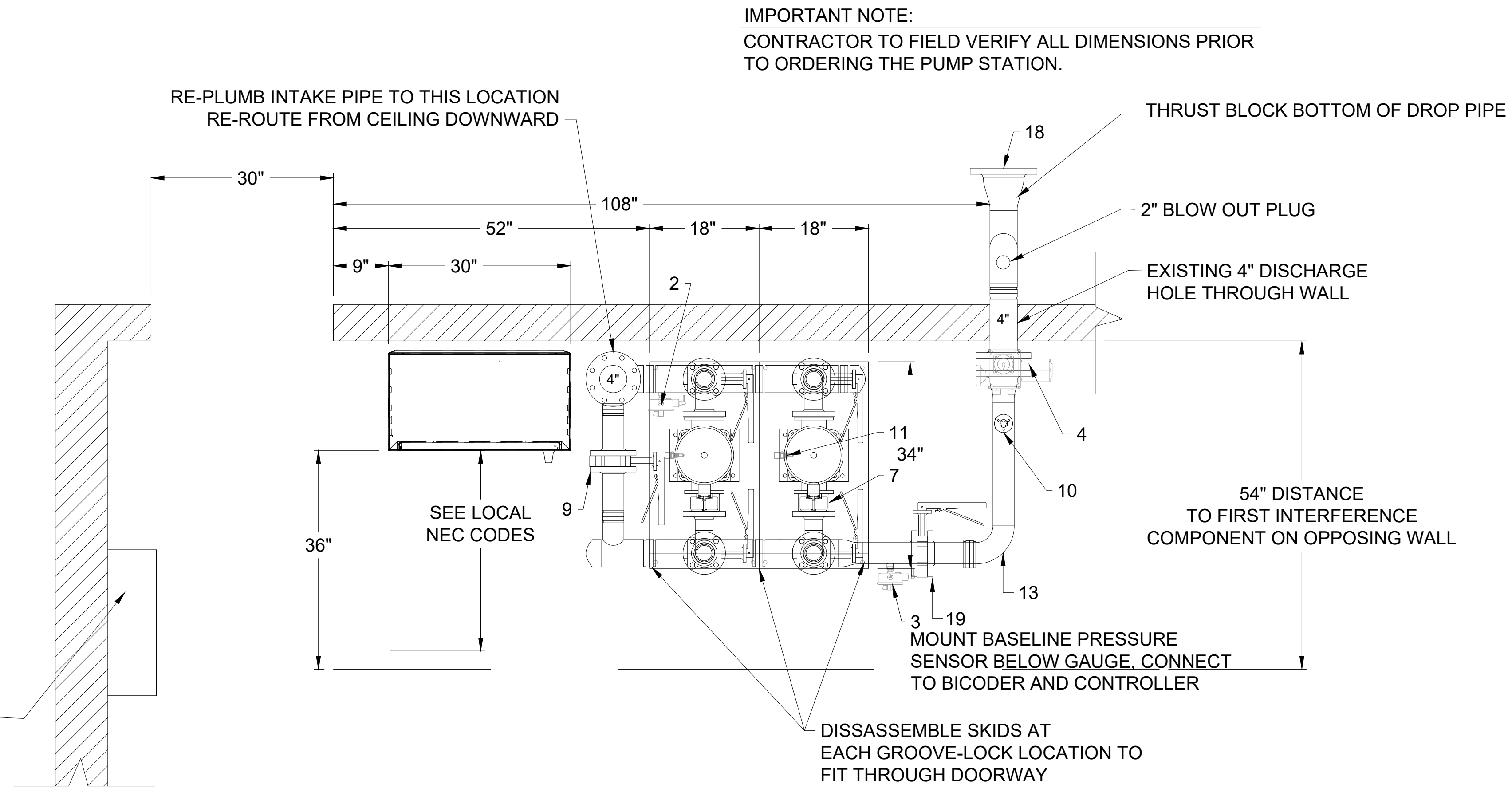
STATION MODEL: VMSB-7A-5V/5V-480-3-240-33

STATION TOTAL PERFORMANCE: 240 GPM @ 33 PSI BOOST
DYNAMIC INLET PRESSURE: 48 PSI (AFTER RPZ)
DISCHARGE REGULATE PRESSURE: 81 PSI

PUMP NO.1: 5HP (3600 RPM)
PUMP NO.2: 5HP (3600 RPM)
PUMP STATION INTAKE CONNECTION SIZE: 4"
PUMP STATION DISCHARGE CONNECTION SIZE: 4"

POWER REQUIREMENTS
460V-3PHZ-60HZ - 20 AMPS FLA

EXISTING POWER PANEL



IMPORTANT NOTE:
CONTRACTOR TO FIELD VERIFY ALL DIMENSIONS PRIOR TO ORDERING THE PUMP STATION.

DESCRIPTION OF OPERATION

PUMP STATION WILL START ON A PRESSURE DROP SENSED IN IRRIGATION MAINLINE. PUMP WILL REGULATE A CONSTANT DISCHARGE PRESSURE AT VARIABLE FLOW RATE. PUMP WILL RETIRE BASED UPON A SUSTAIN REGULATE PRESSURE OVER TIME, AND AN ADJUSTABLE MIN. WATER DEMAND (FLOW).

PUMP STATION WILL TOTALIZE ALL WATER PUMPED, AND HAVE (2) FLOW TOTALIZERS, (1) LIFETIME COUNTER, AND (1) USER RE-SETTABLE COUNTER. PUMP SYSTEM WILL ALSO DISPLAY FLOW AND PSI IN REAL TIME.

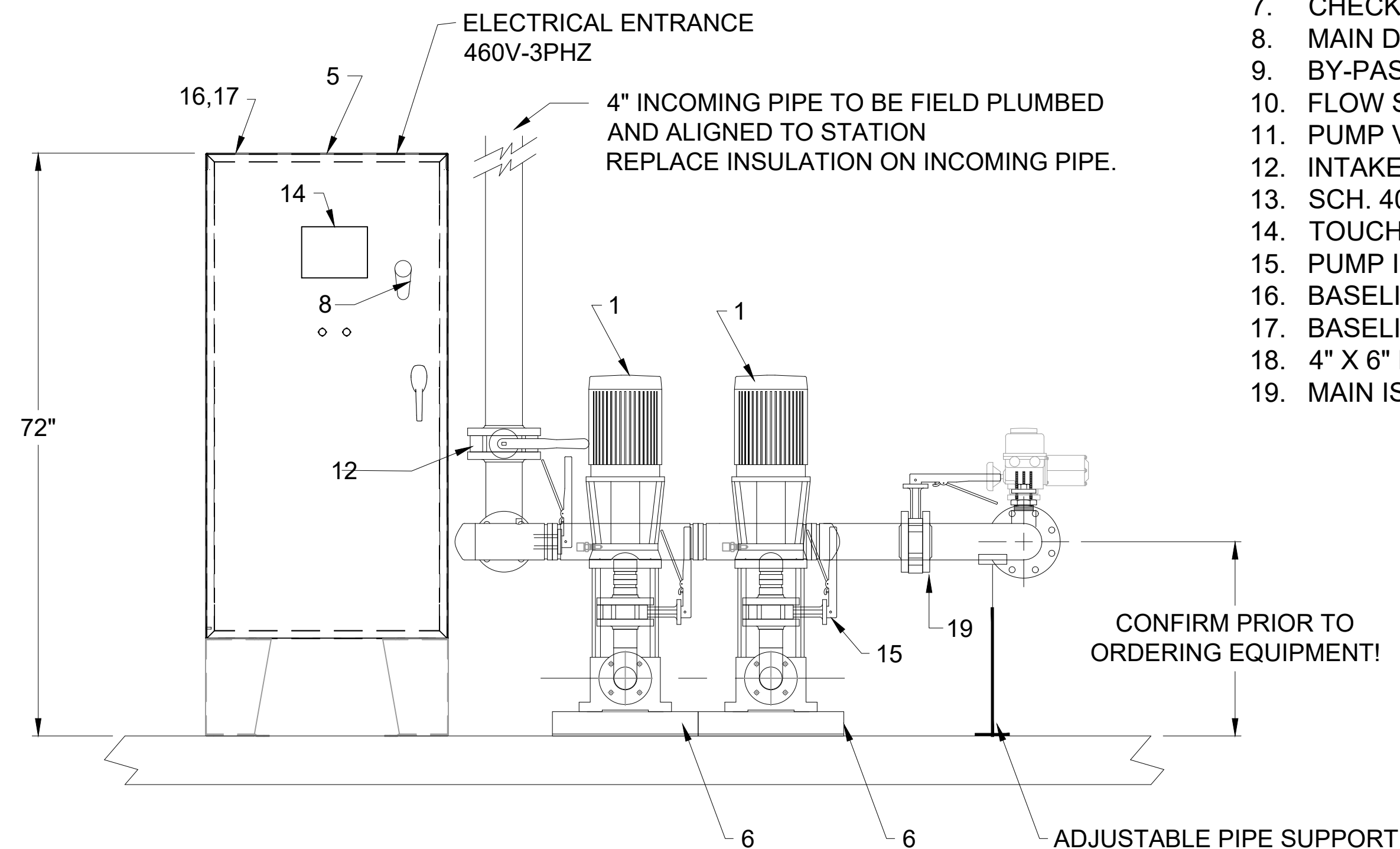
PUMP STATION WILL SHARE FLOW SIGNAL WITH IRRIGATION CONTROLLER. PUMP STATION WILL CLOSE MASTER VALVE WHEN PUMP RECEIVES SIGNAL FROM IRRIGATION CONTROLLER ON UN-SCHEDULED FLOW.

PUMP STATION SHALL HAVE THE FOLLOWING ALARMS

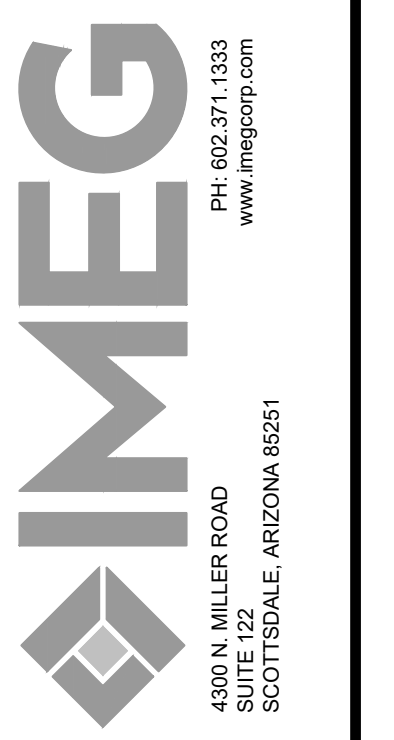
- LOW PRESSURE ALARM
- HIGH PRESSURE ALARM
- HIGH VOLTAGE ALARM
- LOW VOLTAGE ALARM
- HIGH PUMP VOLUTE TEMP
- MOTOR OVERLOAD SHUT DOWN
- PHASE LOSS (3-PHZ SYSTEMS ONLY)
- VFD FAULT SHUT DOWN

STATION COMPONENTS:

1. 5HP PUMP AND MOTOR
2. INLET PRESSURE / VACUUM GAUGE
3. DISCHARGE PRESSURE TRANSDUCER w/ GAUGE
4. N/O MOTORIZED MASTER VALVE / DISCHARGE ISO VALVE
5. UL 508 LISTED CONTROL PANEL
6. PAINTED STEEL MODULAR PUMP BASE(S)
7. CHECK VALVE
8. MAIN DISCONNECT SWITCH
9. BY-PASS VALVE
10. FLOW SENSOR
11. PUMP VOLUTE TEMP SENSOR
12. INTAKE ISOLATION VALVE
13. SCH. 40 EPOXY COATED STEEL PIPE
14. TOUCH SCREEN OPERATOR INTERFACE
15. PUMP ISOLATION VALVE(S)
16. BASELINE FLOW DECODER (IN PANEL)
17. BASELINE SIGNAL DECODER (IN PANEL)
18. 4" X 6" FLG DISCHARGE PIPE WITH SWIVEL CONNECTION
19. MAIN ISOLATION VALVE



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DESCRIPTION	



ROCK VALLEY COLLEGE
ROCKFORD, ILLINOIS
BOOSTER PUMP DETAILS

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