10/7/2021 3:03:25 PM

Drawing symbols

View title — Detail no. X Title SCALE: X"=1'-0"	Exterior elevation — Elevation no. 1 2 A-XXX 4 3 Drawing no.	001 OR 100 A Door numbers
Building / wall section cut — Detail no. X A-XXX Viewing direction Drawing no.	Interior elevations — Elevation no. 1 2 A-XXX 4 3 Drawing no.	001 Window type
Detail section cut — Detail no. X A-XXX Viewing direction DRAWING NO.	Structural grid — 1 2 A B	101 Room number
Detail - blow up — Detail no. X A-XXX Drawing no.	Accessibility — V/HAU Visual / hearing accommodation unit Accessible unit	1 Revision
		C12 OR C12 A Partition type
		1 Plan key note
		1 Demolition key note
		8'-0" AFF Ceiling type and height

Material symbols

	Undisturbed earth		Steel - large scale (Other metals as noted)		Batt insulation
	Gravel or crushed stone		Steel - small scale (Other metals as noted)		Rigid insulation
	Stone		Wood framing (continuous)		Wood blocking (intermittent)
	Concrete		Finish wood		
	Concrete masonry unit		Plywood		
	Brick		Gypsum, sand, mortar		

Architectural / Structural abbreviations

AB	Anchor bolt
A/C	Air condition(ing) (ed)
ACC	Accessible
ACCU	Air cooled condensing unit
ACI	American Concrete Institute
ACT	Acoustical ceiling tile
ACM	Asbestos containing material
ACOUS PNL	Acoustical panel
ACS PNL	Access panel
ADDL	Additional
ADJ	Adjustable, adjacent
ADH	Adhesive
AFF	Above finished floor
AGGR	Aggregate
AHU	Air handling unit
AISC	American Institute of Steel Construction
AISI	American Iron and Steel Institute
ALT	Alternate
ALUM	Aluminum
ANOD	Anodized
APPROX	Approximate
ARCH	Architect(ural)
ARD	Auxiliary roof drain
ASD	Allowable stress design
ASTM	American Society for Testing and Materials
AWP	Acoustical wall panel
AWS	American Welding Society
BAT	Batten
B/B	Back to back
B BD	Base board
BCNYS	Building Code of New York State
BITUM	Bituminous
BD	Board
BLDG	Building
BLKG	Blocking
BM	Beam, Benchmark
BOT	Bottom
BR	Bedroom
BRG	Bearing
BRZ	Bronze
BSMT	Basement
BTWN	Between
BUR	Built up roofing
BW	Both ways
CCTV	Closed circuit television
CAB	Cabinet
CB	Catch basin, Corner bead
CH BD	Chalkboard
CEM	Cement
CF	Contractor furnished
CFMF	Cold-formed metal framing
CF/CI	Contractor furnished/ Contractor installed
CF/OI	Contractor furnished/ Owner installed
CG	Corner guard
CH	Coat hook
CI	Cast iron
CIP	Cast in place, Cast iron pipe
CJ	Control joint
CL	Centerline
CLG	Ceiling
CLO	Closet
CLR	Clear, Color
CMT	Ceramic mosaic tile
CMU	Concrete masonry unit
CNTR	Counter
CO	Cleanout, Cased opening, Company
COL	Column
CONC	Concrete
CONF	Conference
CONN	Connect(ion)
CONSTR	Construction
CONT	Continue(ous)
CONTR	Contract(or)
COORD	Coordinate
CPT	Carpet
CSJ	Construction joint
CSK	Counter sunk
CT	Ceramic tile, Count, Current transformer
CTR	Center
CW	Cold water piping, Casement window
CU	Cubic
CUH	Cabinet unit heater
CU YD	Cubic yard
D	Deep, Depth
D	Penny (nail)
db	Bar diameter
DBL	Double
DEFS	Direct-applied exterior finish system
DEG	Degree
DEMO	Demolition
DEPT	Department
DET	Detail
DF	Drinking fountain
DIA CR ø	Diameter
DIAG	Diagonal, Diagram
DIM	Dimension
DIFF	Diffuser
DIR	Direction
DISP	Disperser
DIV	Division
DMPF	Damp proofing
DL	Dead load
DN	Down
DO	Ditto
DR	Door, Drive
DS	Downspout
DW	Dishwasher

DWV	Drainage waste & vent
DWG	Drawing
DWL	Dowel
E	East
EA	Each
EBCNYS	Existing Building Code of New York State
EC	Electrical contractor
EF	Each face
EIFS	Exterior insulation and finish system
EJ	Expansion joint
ELAS	Elastomeric
EL	Elevation
ELEC	Electrical(ly)
ELEV	Elevator
EM	Entry mat, Expanded metal
EMER	Emergency
ENCL	Enclosure
ENGR	Engineer
EOS	Edge of slab
EP	Electric panel
EQ	Equal
EQUIP	Equipment
ES	Emergency shower
EW	Each way
EWC	Electric water cooler
EXIST	Existing
EXC	Excavation, Excavate
EXP	Expand, Expansion
EXT	Exterior, External, Extinguisher
F/F	Face to face
FAAP	Fire alarm annunciator panel
FACP	Fire alarm control panel
FD	Floor drain
FDTN	Foundation
FE	Fire extinguisher
FEC	Fire extinguisher cabinet
FHC	Fire hose cabinet
FIN	Finish(ed)
FIXT	Fixture
FLASH	Flashing
FLEX	Flexible
FLOUR	Fluorescent
FLG	Flooring, flange
FO	Finished opening
FP	Fire protection, Fireproof
FRTW	Fire retardant treated wood
FT	Foot, Feet
FTG	Footing
FTR	Finned tube radiation
FURN	Furnace, Furniture, Furnish
FUT	Future
FWC	Fabric wall covering
GA	Gage
GAL	Gallon
GALV	Galvanized
GB	Grab bar
GC	General contract(or)
GFRC	Glass fiber reinforced concrete
GFRG	Glass fiber reinforced gypsum
GL	Glass, Ground level
GL BLK	Glass block
GLU LAM	Glued laminated beam
GR	Grade, Gross
GWT	Glazed wall tile
GYP	Gypsum
GYP BD	Gypsum board
GYP PLAS	Gypsum plaster
HB	Hose bibb
HC	Hollow core, Hose cabinet
HCP	Handicapped
HDW	Hardware
HDWD	Hardwood
HM	Hollow metal
HO	Hold open
HORIZ	Horizontal
HP	High point, Horsepower
HR	Hour
HSS	Hollow structural section
HT	Height
HTG	Heating
HTR	Heater
HVAC	Heating, ventilating and air conditioning
HW	Hot water
HYD	Hydrant
ID	Inside diameter
IN	Inches
INCL	Included
INCAND	Incandescent
INFO	Information
INSUL	Insulation
INTERM	Intermediate
INT	Interior
JAN	Janitor
JST	Joist
JT	Joint
KIP	1000 Pounds
KIT	Kitchen
KO	Knockout
KPL	Kick plate
L	Liter, Angle
LAM	Laminate(d)
LAU	Laundry
LAV	Lavatory
LB	Pound
LBL	Label
LD	Load
LF	Linear feet (foot)

LH	Left hand, Latent heat
LIN	Linear
LKR	Locker
LL	Live load
LLH	Long leg horizontal
LLV	Long leg vertical
LOC	Location
LRFD	Load & resistance factor design
LT	Light
LTG	Lighting
LWC	Light-weight concrete
MACH	Machine
MAINT	Maintenance
MAS	Masonry
MATL	Material
MAX	Maximum
MC	Mechanical contractor
MCB	Metal corner bead
MDO	Medium density overlay
MDF	Medium density fiberboard
MECH	Mechanical
MEP	Mechanical, electrical, plumbing and fire protection
MEZZ	Mezzanine
MFR	Manufacturer
MH	Manhole
MM	Millimeter
MIFRC	Mastic/intumescent fire-resistive coating
MIN	Minimum
MISC	Miscellaneous
MLWK	Millwork
MO	Masonry opening
MRK BD	Marker board
MTD	Mounted
MTL	Metal
MULL	Mullion
N	North
NAT	Natural
NCOMBL	Noncombustible
NC	Not in contract
NO OR #	Number
NOM	Nominal
NORM	Normal
NRC	Noise reduction coefficient
NTS	Not to scale
NWC	Normal weight concrete
O/O	Out to out
OA	Overall, Outside air
OC	On center
OD	Outside diameter
OF/CI	Owner furnished, Contactor installed
OF/OI	Owner furnished, Owner installed
OFD	Overflow drain
OFF	Office
OH	Opposite hand
OH DR	Overhead (coiling) door
OPNG	Opening
OPP	Opposite
OPT	Optional, Optimum
OZ	Ounce
PA	Public address
PBD	Particleboard
PC	Plumbing contractor, Portland cement
PCC	Precast concrete
PCT	Porcelain ceramic tile
PED	Pedestal
PEND	Pendant
PER	Period
PERF	Perforated
PGBD	Peg board
PL	Plate, Property line
PLF	Pounds per linear foot
PLAM	Plastic laminate
PLAS	Plaster
PLB	Plumbing
PLYWD	Plywood
PNL	Panel
POL	Polished
PORC	Porcelain
POS	Positive, Position
PPT	Pressure-preservative treated
PR	Pair
PREFAB	Prefabricate
PREFIN	Prefinish
PREP	Preparation
PROJ	Project
PROJ SCRN	Projection screen
PSF	Pounds per square foot
PSI	Pounds per square inch
PT	Paint, Post tension
PTN	Partition
PVC	Polyvinyl chloride (plastic)
PVG	Paving
QT	Quarry tile
QTR	Quarter
QTY	Quantity
R	Riser, Radius, Thermal resistance
RB	Rubber base, Resilient base
RCP	Reinforced concrete pipe, Reflected ceiling plan
RD	Roof drain, Road
REC	Recessed
REF	Refrigerator
REFL	Reflect
REG	Register, Regulation
REINF	Reinforced
REQD	Required
RESIL	Resilient
REV	Revision

RF	Resilient flooring
RFG	Roofing
RH	Right hand, Roof hatch
RM	Room
RO	Rough opening
ROW	Right of way
RTU	Roof top unit
RV	Roof vent
RWB	Rubber wall base
S	South
SAB	Sound attenuation batts
SAN	Sanitary
SC	Solid core, Shading coefficient
SCHED	Schedule
SEAL	Sealer on floor (finish)
SECT	Section
SF	Square foot, Safety factor
SFRM	Sprayed fire-resistive Material
SGT	Structural glazed tile
SHT	Sheet
SHR	Shower
SIM	Similar
SOG	Slab on grade
SP	Standpipe, Sump pit
SPA	Spaces
SPKR	Speaker
SPEC	Specification
SQ	Square
SRD	Secondary roof drain
SS	Service sink
SSM	Solid surface material
SSP	Stainless steel pipe
SST	Stainless steel
ST	Stain
STA	Station
STC	Sound transmission class
STD	Standard
STIFF	Stiffener
STL	Steel
STOR	Storage
STR	Straight, Stringers
STRUCT	Structural
SUSP	Suspended
SV	Sheet vinyl
SY	Square yard
T	Tread
T/	Top of
T&B	Top and bottom
T&G	Tongue and groove
TEL	Telephone
THRES	Threshold
TEMP	Temporary
TER	Terrazzo
THK	Thick(ness)
TK BD	Tack board
TMPD	Tempered
TOC	Top of concrete
TOM	Top of masonry
TOPO	Topography, Topographic
TOS	Top of steel
TOW	Top of wall
TPD	Toilet paper dispenser
TSTAT	Thermostat
TV	Television
TYP	Typical
U	Heat transfer coefficient
UC	Undercut
UCL	Under cabinet lighting
UGND	Underground
UH	Unit heater
UL	Underwriter's laboratories
UNEX	Unexcavated
UNFIN	Unfinished
UON	Unless otherwise noted
UTIL	Utility
UV	Unit ventilator
VARN	Varnish(ed)
VB	Vinyl base
VCT	Vinyl composition tile
VENT	Ventilation
VERT	Vertical
VEST	Vestibule
VIF	Verify in field
VIN	Vinyl
VOL	Volume
VR	Vapor retarder
VT	Vinyl tile
V SHT	Vinyl sheet
VWC	Vinyl wall covering
W	West
W/	With
WC	Water closet, Wall covering
W/O	Without
WD	Wood
WDW	Window
WF	Wide flange
WD GD	Wood guard
WH	Water heater
WI	Wrought iron
WM	Wire mesh
WP	Waterproofing, Working point
WR	Water repellent, weather resistant
W RECPT	Waste receptacle
WSCT	Wainscot
WT	Weight, Watertight, Water table
WWF	Welded wire fabric
X	By
YD	Yard

GENERAL DRAWINGS

G-000 Cover Sheet

CIVIL DRAWINGS

C-1.0 Note Sheet (1 of 2)
C-1.1 Note Sheet (2 of 2)
C-2.0 Demolition Plan
C-3.0 Layout Plan
C-4.0 Soil Management Plan (1 of 5)
C-4.1 Soil Management Plan (2 of 5)
C-4.2 Soil Management Plan (3 of 5)
C-4.3 Soil Management Plan (4 of 5)
C-4.4 Soil Management Plan (5 of 5)
C-5.0 Grading Plan
C-6.0 Utility Plan
D-1.0 Detail Sheet (1 of 2)
D-2.0 Detail Sheet (2 of 2)

IRRIGATION DRAWINGS

IR-1 Irrigation Plan
IR-2 Irrigation Plan

STRUCTURAL DRAWINGS

S-001 Structural General Notes
S-101 Structural Plans & Details

Unisys Corporation North Athletic Field Site Restoration

Bid Set

October 1st, 2021

Former Sperry Remington Site
777 S Main St, Elmira, NY 14904

SWBR Project # 21013.00

Regional Map

Location Map

Civil Engineer:

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Revisions

Unisys Corporation North Athletic Field Site Restoration
SWBR Project Number 21013.00

Unisys Corporation
3199 Pilot Knob Road
Eagan, MN 55121

G-000

Cover Sheet

October 1st, 2021
Bid Set

FILE PATH: BIM 360://21013.00 Unisys - - Elmira CSD Baseball Field Repmnt/21013.00 Unisys - Elmira CSD Baseball Field Repmnt.rvt

DEMOLITION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL DEBRIS FROM THE SITE AND DISPOSING OF IT IN A LEGAL MANNER. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
2. THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO ANY EXISTING BUILDING/FACILITY TO REMAIN AT ALL TIMES.
3. THE CONTRACTOR SHALL COORDINATE WITH THE RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND RELOCATION OF ANY UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR SUCH SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
4. THIS PLAN DOES NOT SHOW ALL ITEMS TO BE DEMOLISHED, ABANDONED AND/OR REMOVED. EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED, OR RELOCATED AS NECESSARY, UNLESS SPECIFIED OTHERWISE. ALL COSTS SHALL BE INCLUDED IN BASE BID.
5. THE CONTRACTOR ACCEPTS ALL RESPONSIBILITY OF SALVAGED MATERIALS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION OF UTILITY SERVICES TO THE EXISTING BUILDING PRIOR TO DEMOLITION.
7. ALL UTILITIES WITHIN PROPOSED BUILDING FOOTPRINTS (INCLUDING 5 FEET BEYOND THE PERIMETER) SHALL BE REMOVED AND THE EXCAVATION AREA SHALL BE BACKFILLED AND COMPACTED PER THE CONSTRUCTION DOCUMENTS.
8. THE CONTRACTOR SHALL CUT AND CAP ALL IRRIGATION LINES A LIMIT OF WORK WITH SCH 40 FITTINGS AS APPROPRIATE WITH THE EXISTING PIPING MATERIAL.
9. REMOVAL OR ABANDONMENT OF UTILITIES, DRIVEWAYS, STRUCTURES, ETC. SHALL ONLY BE PERFORMED AFTER CRITICAL NEW OR TEMPORARY INFRASTRUCTURE IS IN PLACE AND OPERATIONAL (I.E. UTILITIES, DRAINAGE, PAVING, ACCESSIBLE PARKING, ETC.). THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROPER AND SAFE SEQUENCING.
10. THE CONTRACTOR IS RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO ALL UTILITIES, STORM DRAINAGE, SIGNS, ETC. AS REQUIRED. ALL WORK SHALL BE IN ACCORDANCE WITH THE GOVERNING AUTHORITY'S SPECIFICATIONS AND SHALL BE APPROVED BY THE AUTHORITY PRIOR TO THE START OF WORK. COSTS FOR SUCH RELOCATIONS SHALL BE INCLUDED IN THE BASE BID.
11. THE CONTRACTOR SHALL VERIFY OVERHEAD UTILITY ELEVATIONS TO AVOID CONFLICTS.
12. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ELECTRICAL, TELEPHONE, CABLE, WATER, FIBER OPTIC, AND/OR GAS LINES NEEDING RELOCATION OR REMOVAL. ADEQUATE TIME SHALL BE PROVIDED FOR RELOCATION AND CLOSE COORDINATION WITH THE UTILITY COMPANY IS NECESSARY IN AN EFFORT TO PROVIDE A SMOOTH TRANSITION IN UTILITY SERVICE.
13. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY SERVICES INCLUDING BUT NOT LIMITED TO: GAS, ELECTRIC, TELEPHONE, STORM DRAINAGE, SANITARY SEWAGE, COMMUNICATIONS, HEAT, ETC. THROUGHOUT ALL PHASES OF CONSTRUCTION. COSTS FOR SUCH TEMPORARY SERVICES SHALL BE INCLUDED IN THE BASE BID.
14. THE CONTRACTOR MUST PROTECT THE PUBLIC AT ALL TIMES WITH FENCING, BARRICADES, ENCLOSURES, ETC. AS REQUIRED BY THE OWNER, CITY OF ELMIRA AND/OR THE ENGINEER.
15. THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF EXISTING FACILITIES AND CONSTRUCTION OF NEW SITE/BUILDING IMPROVEMENTS.
16. NO WORK SHALL COMMENCE UNTIL ALL INITIAL EROSION AND SEDIMENTATION CONTROL PRACTICES ARE IN PLACE.
17. CONTRACTOR IS RESPONSIBLE FOR ALL REPAIRS AND/OR REPLACEMENT OF FACILITIES/STRUCTURES, ETC. WHICH MAY BE DAMAGED DUE TO DEMOLITION OR CONSTRUCTION ACTIVITIES.
18. EXISTING PAVEMENT AND CONCRETE SHALL BE SAW-CUT AT THE LIMITS OF WORK PRIOR TO REMOVAL IF REQUIRED.
19. THE CONTRACTOR SHALL LIMIT SAW-CUT ACTIVITIES TO ONLY THOSE AREAS WHERE IT IS REQUIRED OR AS SHOWN ON THE PLANS. IF SURROUNDING PAVEMENT/CONCRETE IS DAMAGED, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND/OR REPAIR.
20. DAMAGE TO ALL EXISTING CONDITIONS TO REMAIN WILL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
21. ALL SIGNS, STRIPING AND OTHER FEATURES THAT WERE IMPACTED OR DISTURBED SHALL BE RESTORED.
22. NO WORK OR EQUIPMENT IS ALLOWED ON THE ADJACENT PROPERTIES WITHOUT WRITTEN CONSENT OF PROPERTY OWNER(S), EXCEPT AS SHOWN.
23. THE CONTRACTOR SHALL PROTECT ALL PROJECT BENCHMARKS, PROPERTY CORNERS, AND SURVEY MONUMENTS/MARKERS THROUGHOUT CONSTRUCTION.
24. EXISTING SOD SHALL BE CUT AND REMOVED WITHIN LIMITS OF NEW SOD PLACEMENT.
25. SOIL MATERIAL EXCAVATED AS PART OF REMOVAL OF THE EXISTING IRRIGATION SYSTEM REMOVAL SHALL BE PROPERLY DISPOSED OF BY THE SITE CONTRACTOR.
26. SOIL MATERIAL EXCAVATED AS PART OF THE NEW IRRIGATION SYSTEM INSTALLATION.
27. SITE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SITE RECEIVING EXCESS SPOIL MATERIAL HAS ALL RELEVANT NYSDEC SPDES PERMITS AND THAT ALL APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE PRIOR TO PLACEMENT OF MATERIALS.
28. REMOVE ALL WIRING FROM WITHIN CONDUIT SERVING SOFTBALL & BASEBALL FIELD LIGHTING THAT IS TO BE IMPACTED. IN-ACTIVE SITE ELECTRICAL WIRING SHALL NOT BE LEFT IN PLACE.

SITE ACCESS

1. SITE ACCESS IS TO BE VIA EXISTING TEMPORARY/INTERIM CONSTRUCTION ACCESS FROM VFW THAT HAS BEEN ESTABLISHED AS PART OF THE SITE REMEDIATION PROJECT.
2. AS PART OF THIS PROJECT, THE RESTORATION CONTRACTOR SHALL CONTINUE TO UTILIZE THAT POINT OF CONSTRUCTION ACCESS. ANY REDRESSING OF TEMPORARY STONE CONSTRUCTION ENTRANCE THAT IS REQUIRED DUE TO THE RESTORATION WORK, THE RESTORATION CONTRACTOR SHALL PROVIDE ADDITIONAL STONE PER THE APPLICABLE DETAIL PROVIDED IN THIS SET.

PROJECT PHASING

1. THE SITE CONTRACTOR IS RESPONSIBLE FOR INITIATING ALL SITE RESTORATION WORK OUTLINED IN THESE PLANS. THIS INCLUDES COORDINATING DIRECTLY WITH THE IRRIGATION CONTRACTOR AS TO WHEN THE RESTORATION AREAS WILL BE READY FOR IRRIGATION SYSTEM INSTALLATION.

IRRIGATION NOTES

1. SITE RESTORATION CONTRACTOR IS RESPONSIBLE FOR CONTRACTING DIRECTLY WITH A QUALIFIED IRRIGATION SYSTEM INSTALLATION CONTRACTOR.
2. REFER TO THE IRRIGATION SYSTEM PLANS PREPARED BY SITE ONE DATED 4/15/21 FOR DETAILS ASSOCIATED WITH THE PROPOSED IRRIGATION SYSTEM.
3. SITE REMEDIATION CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION AND BACKFILL ASSOCIATED WITH IRRIGATION SYSTEM INSTALLATION. SITE RESTORATION CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL PIPING, VALVES, WIRING, ETC. SITE RESTORATION CONTRACTOR TO COORDINATE SCOPE OF RESTORATION WORK WITH REMEDIATION CONTRACTOR PRIOR TO THE START OF WORK. IF CONFLICTS ARE IDENTIFIED, THE RESTORATION CONTRACTOR SHALL CONTACT UNISYS FOR RESOLUTION PRIOR TO PROCEEDING.
4. IRRIGATION CONTRACTOR RESPONSIBLE FOR ALL PLUMBING AND ELECTRICAL WORK ASSOCIATED WITH THE NEW SYSTEM INSTALLATION.
5. IRRIGATION CONTRACTOR RESPONSIBLE FOR ALL PLUMBING AND ELECTRICAL WORK ASSOCIATED WITH THE INSTALLATION OF NEW CONTROL MODULE/COMPONENTS WITHIN THE ATHLETIC FIELD HOUSE.
6. SITE CONTRACTOR RESPONSIBLE FOR FINAL SITE PREP, GRADING & STABILIZATION UPON COMPLETION OF IRRIGATION SYSTEM INSTALLATION.
7. FINAL ORIENTATION OF SPRINKLER HEADS TO BE DETERMINED BY DISTRICT PRIOR TO BACKFILLING.
8. RESTORATION CONTRACTOR SHALL COORDINATE WITH THE IRRIGATION CONTRACTOR REGARDING THE EXISTING IRRIGATION BOOSTER PUMP TO EVALUATE WHETHER A NEW PUMP IS REQUIRED. IF A NEW PUMPS IS REQUIRED, THE RESTORATION CONTRACTOR SHALL PROVIDE THE APPROPRIATE PUMP.

SOIL REMEDIATION NOTES

1. THE SITE RESTORATION CONTRACTOR SHALL COORDINATE ALL SITE WORK ACTIVITIES WITH THE OWNER'S REMEDIATION CONTRACTOR THROUGHOUT THE DURATION OF THE RESTORATION WORK.
2. NO SOIL MATERIAL (FILL, TOPSOIL, CLAY INFIELD & TOP DRESSING, SOD, ETC.) MAY BE IMPORTED TO THE SITE UNTIL THE OWNER'S SITE REMEDIATION CONTRACTOR APPROVES OF THE MATERIAL. REFER TO SPECIFICATION SECTION 312323 FOR ADDITIONAL INFORMATION.
3. ABSOLUTELY NO MATERIAL SHALL BE HAULED OFFSITE BY THE SITE RESTORATION CONTRACTOR. THE SITE RESTORATION CONTRACTOR SHALL PLACE ANY EXCAVATED MATERIAL ON SEPARATION POLY MEMBRANE (PROVIDED BY THE REMEDIATION CONTRACTOR) ADJACENT TO THE EXCAVATION AREAS. THE REMEDIATION CONTRACTOR WILL THEN PERFORM THE NECESSARY SOIL TESTING TO CONFIRM PRESENCE OR ABSENCE OF SOIL CONTAMINATION. BASED ON THEIR FINDINGS, THE SOIL REMEDIATION CONTRACTOR WILL DISPOSE OF THE MATERIAL OFFSITE.
4. ALL TEMPORARY EROSION CONTROL MEASURES TO BE PROVIDED BY THE UNISYS REMEDIATION CONTRACTOR.
5. SITE REMEDIATION CONTRACTOR IS RESPONSIBLE FOR PLACEMENT OF DEMARCATION LAYER PRIOR TO FINAL FILL PLACEMENT BY THE RESTORATION CONTRACTOR.
6. THE SITE RESTORATION CONTRACTOR SHALL NOT EXCAVATE BELOW THE DEMARCATION LATER. IF THE NEED ARISES, THE RESTORATION CONTRACTOR SHALL COMMUNICATE SUCH NEED WITH UNISYS AND THE REMEDIATION CONTRACTOR IMMEDIATELY. UNISYS AND REMEDIATION CONTRACTOR WILL THEN DETERMINE ACTION PLAN FOR SUCH WORK.

GENERAL

1. **APPLICABILITY** - THE NOTES AND INFORMATION PROVIDED ON THIS SHEET ARE APPLICABLE TO ALL "C" SERIES DRAWINGS. THE "C" SERIES DRAWINGS COVER SITE RELATED IMPROVEMENTS OUTSIDE THE BUILDING ENVELOPE. THE BUILDING ENVELOPE INCLUDES ALL AREA WITHIN 5' OUTSIDE OF THE BUILDING'S EXTERIOR WALL.
2. **MAPPING** - THE EXISTING UNDERGROUND UTILITIES WERE PLOTTED BASED ON RECORD MAPPING SUPPLIED BY OTHERS. THE ENGINEER MAKES NO WARRANTY AS TO THE LOCATION, SIZE, TYPE, ELEVATION, AND/OR NUMBER OF EXISTING UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF UTILITIES IN THE VICINITY OF THE NEW INFRASTRUCTURE.
3. **UTILITY STAKEOUT** - THE CONTRACTOR SHALL NOTIFY DIG SAFELY NEW YORK (1-800-962-7962) FOR A UTILITY STAKEOUT 48 HOURS IN ADVANCE OF COMMENCING WORK. STAKEOUT OF PRIVATE UTILITIES SHALL BE COORDINATED WITH THE OWNER.
4. **PROPERTY PROTECTION** - THE CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING PAVEMENT, CURBS, WALKS, LAWNS, TREES, ETC. CAUSED BY THEIR CONSTRUCTION OPERATIONS. ALL DAMAGE SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR TO THE OWNER'S SATISFACTION AT NO ADDITIONAL EXPENSE.
5. **ACCESS** - THE CONTRACTOR SHALL PROVIDE SATISFACTORY VEHICULAR ACCESS TO ALL ADJOINING PROPERTIES, PRIVATE ROADWAYS, PARKING FACILITIES, AND PUBLIC STREETS DURING CONSTRUCTION.
6. **SITE SAFETY** - PRIOR TO AND THROUGHOUT CONSTRUCTION, THE CONTRACTOR SHALL POST SIGNAGE IN CONFORMANCE WITH THE REQUIREMENTS OF THE LOCAL MUNICIPALITY AND OCCUPATIONAL HEALTH AND SAFETY ACT (OHSA). JOB SAFETY AND MAINTENANCE AND PROTECTION OF TRAFFIC IS THE RESPONSIBILITY OF THE CONTRACTOR.
7. **EXCAVATIONS** - ALL EXCAVATIONS SHALL BE BACKFILLED/BARRICADED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AT THE CONCLUSION OF EACH WORKING DAY.
8. **MAINTENANCE** - PUBLIC STREETS, PRIVATE DRIVES AND PARKING FACILITIES SHALL BE KEPT FREE OF FOREIGN MATERIALS. ALL AREAS SHALL BE SWEPT CLEAN AT THE END OF EACH WORKING DAY AND/OR AS DIRECTED BY THE OWNER'S ON-SITE REPRESENTATIVE.
9. **CONSTRUCTION STORAGE** - STORAGE OF EQUIPMENT AND MATERIALS SHALL BE WITHIN A SPECIFIED AND SECURED AREA AS DETERMINED IN CONTRACT DOCUMENTS OR AS SPECIFIED BY THE OWNER'S ON-SITE REPRESENTATIVE.
10. **PERMIT(S)** - PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN THE NECESSARY PERMITS FROM THE APPLICABLE MUNICIPALITY OR AGENCY. THE CONTRACTOR IS RESPONSIBLE FOR ALL BONDS AND INSURANCES AND THE OWNER IS RESPONSIBLE FOR PERMIT FEES UNLESS OTHERWISE STATED IN THE OWNER/ CONTRACTOR AGREEMENT
11. **INTERIM CONDITIONS** - THE CONTRACTOR IS RESPONSIBLE TO MAINTAIN POSITIVE DRAINAGE AWAY FROM BUILDINGS AND WITHIN PROJECT AREA TO A STABILIZED OUTLET THROUGHOUT THE CONSTRUCTION PERIOD. THIS MAY REQUIRE INTERIM GRADING, SHIMMING OF PAVEMENT ETC. THAT IS NOT SPECIFICALLY SHOWN ON THE PLANS AND SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
12. **SPECIFICATIONS** - TECHNICAL SPECIFICATIONS, IF SUPPLIED AS PART OF CONTRACT DOCUMENTS, ARE INTENDED TO AID AND HELP DEFINE THE CONTRACTOR'S WORK SCOPE. IF DISCREPANCIES OCCUR THE CONTRACTOR SHALL REQUEST A CLARIFICATION.

RESTORATION AND LANDSCAPING

1. **WARRANTY** - THE RESTORATION CONTRACTOR SHALL PROVIDE A ONE (1) YEAR WARRANTY ON ALL NEW GRASS TURF AREAS ESTABLISHED WITH SODDING AS PART OF THE NORTHERN ATHLETIC FIELD RESTORATION WORK; PROVIDED, (1) SUCH WARRANTY SHALL BE SUBJECT TO THE ELMIRA CITY SCHOOL DISTRICT ADEQUATELY MAINTAINS SUCH SODDED AREAS DURING THE ONE-YEAR PERIOD, INCLUDING WATERING, FERTILIZING, MOWING, ETC., AFTER RESTORATION CONTRACTOR HAD ESTABLISHED GROWTH IN SUCH SODDED OR SEEDED AREAS IN ACCORDANCE WITH SPECIFICATIONS AND (2) SUCH WARRANTY SHALL NOT APPLY TO ANY REHARVESTED SOD PLACED IN THE NORTH ATHLETIC FIELDS BY THE ELMIRA CITY SCHOOL DISTRICT.
2. **IMPORTED TOPSOIL** - REMEDIATION CONTRACTOR SHALL PLACE A MINIMUM OF **6 INCHES** (REQUIRED) OF TOPSOIL ON ALL DISTURBED SURFACES. TOPSOIL SHALL COMPLY WITH SPECIFICATION SECTION 312323. THIS MATERIALS HALL BE SPREAD AND FINE GRADED TO ESTABLISH THE DESIGN ELEVATIONS AND DRAINAGE PATTERNS. OBTAIN UNISYS APPROVAL PRIOR TO SEEDING/SODDING.
3. **FERTILIZING** - THE RESTORATION CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING FERTILIZER TO ALL ATHLETIC FIELD AREAS TO BE NEWLY RE-SEEDED OR RE-SODDED WITH 18-24-12 STARTER FERTILIZER AT A RATE OF 50 LBS/9,000 SF. APPLY AFTER SMOOTH RAKING OF TOPSOIL AND PRIOR TO ROLLER COMPACTION. DO NOT APPLY FERTILIZER AT THE SAME TIME OR WITH THE SAME MACHINE AS WILL BE USED TO APPLY SEED. MIX THOROUGHLY INTO UPPER 2-INCHES OF TOPSOIL. LIGHTLY WATER TO AID THE DISSIPATION OF FERTILIZER.
4. **ATHLETIC FIELD SEED** - THE RESTORATION CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING GRASS TURF VIA SEED WHERE NOTED ON THE DRAWINGS. ATHLETIC FIELD AREAS AS NOTED ON THE PLAN TO RECEIVE SEED & MULCH SHALL BE SEEDED BASED ON THE FOLLOWING RECOMMENDATIONS:

   SPRING-EARLY SUMMER:
   - SEED SHALL BE BETTER BLUE KBG BLEND/CUSTOM - 100% KENTUCKY BLUEGRASS SEED MIX WITH AN ADDITIONAL 20% TURF-TYPE ANNUAL RYE ADDED TO THE SEED MIX.

   LATE SUMMER:
   - SEED SHALL BE BETTER BLUE KBG BLEND.

   SEEDING -DO NOT SEED AREAS IN EXCESS OF THAT WHICH CAN BE MULCHED ON THE SAME DAY. DO NOT SOW IMMEDIATELY FOLLOWING RAIN, WHEN GROUND IS TOO DRY OR DURING WINDY PERIODS. ROLL SEEDED AREA WITH ROLLER NOT EXCEEDING 112 LBS. IMMEDIATELY FOLLOWING SEEDING AND COMPACTING, APPLY STRAW MULCH TO A THICKNESS OF 1/8-INCHES. APPLY WATER WITH A FINE SPRAY IMMEDIATELY AFTER EACH AREA HAS BEEN MULCHED, SATURATE TO 4-INCHES OF SOIL. FOLLOWING GERMINATION, IMMEDIATELY RE-SEED AREAS WITHOUT GERMINATED SEEDS THAT ARE LARGER THAN 4x4 INCHES.

   HYDROSEEDING - APPLY SEED SLURRY WITH HYDRAULIC SEEDER AT THE RATE NOTED ABOVE EVENLY IN TWO INTERSECTING DIRECTIONS. DO NOT HYDROSEED AN AREA IN EXCESS OF THAT WHICH CAN BE MULCHED ON THE SAME DAY. IMMEDIATELY FOLLOWING SEEDING AND COMPACTING, APPLY MULCH TO A THICKNESS OF 1/8-INCHES. APPLY WATER WITH A FINE SPRAY IMMEDIATELY AFTER EACH AREA HAS BEEN MULCHED, SATURATE TO 4-INCHES OF SOIL. FOLLOWING GERMINATION, IMMEDIATELY RE-SEED AREAS WITHOUT GERMINATED SEEDS THAT ARE LARGER THAN 4x4 INCHES.
5. **SOD** - THE RESTORATION CONTRACTOR SHALL BE RESPONSIBLE FOR PLACING NEW SOD AS NOTED ON THE DRAWINGS. GRASS TURF SOD SHALL BE HEALTHY, LIVING GRASS SOD FREE OF DISEASES, PESTS/SOIL-BORN INSECTS, WEEDS AND OF UNIFORM HEIGHT. SOD SHALL BE CERTIFIED TURFGRASS SOD QUALITY, 100 % KENTUCKY BLUE GRASS TYPE, WITH NO MORE THAN 5 WEEDS PER 1,000 SF. SOD SHALL BE MACHINE CUT AND LOADED ONTO PALLETS PER TURFGRASS PRODUCERS INTERNATIONAL (TPI) GUIDELINES. REFER TO SPECIFICATION SECTION 312323 FOR APPROVED SUPPLIERS, COMPOSITION AND TESTING REQUIREMENTS.

   DO NOT DELIVER MORE THAN CAN BE LAID IN 24 HOURS. MOISTEN PREPARED SURFACE IMMEDIATELY PRIOR TO LAYING SOD. LAY SOD IMMEDIATELY AFTER DELIVERY TO SITE TO PREVENT DETERIORATION. LAY SOD SMOOTH AND TIGHT WITH NO OPEN JOINTS VISIBLE AND NO OVERLAPPING. STAGGER END JOINTS 12 INCHES MINIMUM. DO NOT STRETCH OR OVERLAP SOD PIECES. WHERE SOD IS PLACED ADJACENT TO EXISTING GRASS AREAS, ALIGN TOP SURFACES. WHERE NEW SOD IS PLACED ADJACENT TO HARD SURFACES, SUCH AS CURBS, PAVEMENTS, ETC. PLACE TOP ELEVATION OF SOD 1/2-INCH BELOW TOP OF HARD SURFACE. ON SLOPES 6-INCHES PER FOOT OR STEEPER, LAY SOD PERPENDICULAR TO SLOPE AND SECURE EVERY ROW WITH WOODEN PEGS AT MAXIMUM 2-FEET ON CENTER. DRIVE PEGS FLUSH WITH SOIL PORTION OF SOD. WATER SODDED AREAS IMMEDIATELY AFTER INSTALLATION. SATURATE SOD TO 4-INCHES OF SOIL. AFTER SOD AND SOIL HAVE DRIED, ROLL SODDED AREAS TO ENSURE GOOD BOND BETWEEN SOD AND SOIL TO REMOVE MINOR DEPRESSIONS AND IRREGULARITIES. ROLL SODDED AREAS WITH ROLLER NOT EXCEEDING 110 LBS.
6. **IRRIGATION** - THE RESTORATION CONTRACTOR IS RESPONSIBLE FOR ALL IRRIGATION/WATERING OF SEEDED/SODDED AREAS SUCH THAT A HEALTHY STAND OF GRASS RESULTS. THE RESTORATION CONTRACTOR SHALL NOT ALLOW GRASS TO WILT. WATER AS NECESSARY TO SUPPLEMENT RAINFALL. DO NOT WASTE WATER OR WATER AREAS NOT NEEDING WATER, DO NOT WATER DURING A RAIN EVENT. THE RESTORATION CONTRACTOR IS RESPONSIBLE FOR ALL PIPING/HOSES AND SPRINKLER SYSTEMS TO BE USED IN WATERING AREAS AS NECESSARY UNTIL SUCH TIME THE NEW IRRIGATION SYSTEM BECOMES OPERATIONAL. THE DISTRICT'S WATER MAY BE USED FOR WATERING.
7. **MOWING** - THE RESTORATION CONTRACTOR SHALL BE RESPONSIBLE FOR MOWING OF NEWLY SEEDED/SODDED AREAS DURING INITIAL GROWTH PERIOD UNTIL FINAL ACCEPTANCE BY THE DISTRICT. MOWING FREQUENCY WILL VARY BUT IN GENERAL SHOULD BE SCHEDULED SUCH THAT NO MORE THAN ONE-QUARTER TO ONE-THIRD OF GRASS LEAF LENGTH IS REMOVED DURING CUTTING. EACH SUCCESSIVE MOWING SHOULD BE ALIGNED 45 DEGREES TO THE PREVIOUS MOWING DIRECTION IF PRACTICAL. MOWING HEIGHT SHOULD BE LIMITED TO 3-INCHES.
8. **TURF MAINTENANCE** - THE RESTORATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SEED/SOD MAINTENANCE THAT MAY BE REQUIRED UNTIL FINAL ACCEPTANCE. BARE SPOTS SHALL BE LIMITED TO 2% OF THE TOTAL TURF AREA AND SHALL NOT EXCEED 6-INCHES SQUARE. TURF SHALL BE KEPT FREE OF THATCH, WOODY PLANT ROOTS, DISEASES, NEMATODES, SOIL-BORNE INSECTS, STONES LARGER THAN 1-INCH DIAMETER AND OTHER MATERIALS DETRIMENTAL TO TURF ESTABLISHMENT. LIMIT BROADLEAF WEEDS AND PATCHES OF FOREIGN GRASS TO A MAXIMUM OF 2 % OF THE TOTAL TURF AREA. THE RESTORATION CONTRACTOR SHALL BE RESPONSIBLE FOR RESEEDING AND/OR REMOVAL AND REPLACEMENT OF SOD IF REQUIRED PRIOR TO FINAL ACCEPTANCE.
9. **MAINTENANCE PERIOD AND FINAL ACCEPTANCE** - THE RESTORATION CONTRACTOR SHALL PROVIDE CONTINUED MAINTENANCE OF SEEDED AND SODDED AREAS UNTIL ALL SEEDED AND SODDED AREAS ARE WELL ESTABLISHED AND EXHIBIT A VIGOROUS GROWING CONDITION AT WHICH TIME THERE SHALL BE FINAL ACCEPTANCE. UNLESS OTHERWISE AGREED, THE MAINTENANCE PERIOD FOR SEEDED AND SODDED AREAS PRIOR TO FINAL ACCEPTANCE SHALL BE AS FOLLOWS:

   SEEDED AREAS: 60 GROWING DAYS (BETWEEN APRIL 15 TO NOVEMBER 15) FROM DATE OF PLANTING COMPLETION, UNLESS THE NEED FOR ADDITIONAL MAINTENANCE IS IDENTIFIED. ANY ADDITIONAL MAINTENANCE REQUIRED BEYOND THE INITIAL MAINTENANCE PERIOD UNTIL FINAL ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE RESTORATION CONTRACTOR. IF NON-GROWING DAYS SHOULD INTERCEDE BECAUSE OF WHEN SEED IS PLACED THE RESTORATION CONTRACTOR'S MAINTENANCE PERIOD SHALL BE EXTENDED ACCORDINGLY.

   SODDED AREAS: 30 GROWING DAYS (BETWEEN APRIL 15 TO NOVEMBER 15) FROM DATE OF PLANTING COMPLETION, UNLESS THE NEED FOR ADDITIONAL MAINTENANCE IS IDENTIFIED. ANY ADDITIONAL MAINTENANCE REQUIRED BEYOND THE INITIAL MAINTENANCE PERIOD UNTIL FINAL ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE RESTORATION CONTRACTOR. IF NON-GROWING DAYS SHOULD INTERCEDE BECAUSE OF WHEN SOD IS PLACED THE RESTORATION CONTRACTOR'S MAINTENANCE PERIOD SHALL BE EXTENDED ACCORDINGLY.

EROSION CONTROL

1. **NOTIFICATION** - AS DESIGN ENGINEER, OUR OFFICE IS UNDER THE UNDERSTANDING THAT GROUND DISTURBANCE ACTIVITIES ARE AUTHORIZED UNDER THE REMEDIATION PERMIT AS ISSUED BY NYSDEC. THEREFORE, COVERAGE UNDER THE NYSDEC UNDER STATE POLLUTANT DISCHARGE ELIMINATION SYSTEM (SPDES) GENERAL PERMIT #GP-0-20-002 IS UNDERSTOOD TO NOT BE REQUIRED.
2. **PRE-CONSTRUCTION** - THE APPROPRIATE EROSION CONTROL MEASURES AS DEFINED BY THE CONSTRUCTION DOCUMENTS SHALL BE INSTALLED PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
3. **TOPSOIL** - UPON COMPLETION OF THE STOCKPILE STRIPPING OPERATION, STOCKPILES SHALL BE STABILIZED IN ACCORDANCE TO NYSDEC REGULATIONS.
4. **SLOPES** - UPON COMPLETION OF GRADING, SLOPES WITH A GRADIENT OF ONE FOOT VERTICAL TO THREE FEET HORIZONTAL (1 ON 3) OR GREATER SHALL BE: TOPSOILED, SEEDED, FERTILIZED AND MULCHED OR TREATED AS SPECIFIED ON CONTRACT DRAWINGS.
5. **DUST** - THE CONTRACTOR SHALL APPLY WATER AND/OR CALCIUM CHLORIDE, AS CONDITIONS WARRANT, TO CONTROL WIND BORN EROSION. THIS MEASURE APPLIES TO: HAUL ROADS, CUT AND FILL OPERATIONS, SUB-BASE AND ANY OTHER EXPOSED SURFACES.
6. **OPERATION & MAINTENANCE** - THROUGHOUT THE PERIOD OF CONSTRUCTION AND PRIOR TO ESTABLISHING FINAL GROUND COVER THE SITE CONTRACTOR IS RESPONSIBLE FOR THE OPERATION AND MAINTENANCE OF THE TEMPORARY EROSION CONTROL MEASURES. FOR EXAMPLE, THE SILTATION FACILITIES SHALL BE RE-EXCAVATED WHEN THE VOLUME (3600 CUBIC FEET/DISTURBED ACRE) IS REDUCED BY ONE-HALF OR MORE OF ITS SPECIFIED CAPACITY AND/OR THE MATERIAL IS WITHIN ONE FOOT OF THE DISCHARGE POINT.
7. **WORK STOPPAGE** - ALL DISTURBED AREAS NOT TO BE WORKED WITHIN 14 DAYS MUST BE SEEDED WITHIN 7 DAYS FROM THE LAST CONSTRUCTION ACTIVITY IN THAT AREA.
8. **TEMPORARY STABILIZATION** - TEMPORARY STABILIZATION SHALL REQUIRE 4 TONS OF STRAW/ ACRE OF DISTURBANCE PLACED WITH TACKIFIER OR ROLLED WITH A TRACKED VEHICLE TO ENSURE NOT DISPLACED.
9. **SUBSOIL RESTORATION/DE-COMPACTION** - ALL AREAS TO BE RESTORED AS LAWN SHALL BE RESTORED PER CHAPTER 5 (5.1.6) OF THE NEW YORK STATE STORMWATER DESIGN MANUAL AND THE SOIL RESTORATION TABLE (TABLE 5.3 - SOIL RESTORATION REQUIREMENTS) SHOWN ON THIS PLAN. THE PROJECT SOILS ARE HYDROLOGIC SOIL GROUP D AND SHALL BE RESTORED AS SPECIFIED.

   DEPTH OF REQUIRED SOIL RESTORATION SHALL BE TESTED BY THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF SOIL RESTORATION/DE-COMPACTION. DEPTH OF SOIL RESTORATION/DE-COMPACTION SHALL NOT EXTEND BELOW 24". IF SOIL RESTORATION/DE-COMPACTION IS DEEMED NECESSARY BELOW 24", UNISYS AND THE REMEDIATION CONTRACTOR WILL NEED TO EVALUATE AND ESTABLISH AN APPROPRIATE WORK PLAN PRIOR TO PROCEEDING.
10. **SEQUENCE** - THE CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES IN THE FOLLOWING SEQUENCE UNLESS AUTHORIZED OTHERWISE AT PRE-CONSTRUCTION MEETING:
    - SITE RESTORATION CONTRACTOR SHALL COORDINATE WITH THE OWNER'S REMEDIATION CONTRACTOR TO INSTALL ADDITIONAL PERIMETER SEDIMENT CONTROLS, I.E. EROSION FENCING AROUND PLANNED STOCKPILE LOCATIONS
    - SITE RESTORATION CONTRACTOR TO COORDINATE WITH THE OWNER'S REMEDIATION CONTRACTOR TO REDRESS STABILIZED CONSTRUCTION ENTRANCE AS NEEDED.
    - PROTECT VEGETATION TO REMAIN.
    - COMMENCE PLACEMENT OF GENERAL EARTHEN FILL
    - MAINTAIN EROSION CONTROL MEASURES AND PLACE ADDITIONAL MEASURES AS EARTHWORK AND UNDERGROUND UTILITIES ARE CONSTRUCTED.
    - PERFORM SOIL RESTORATION IN AREAS OF HEAVY TRAFFIC AND RUTTING PERFORM FULL SOIL RESTORATION PER NYSDEC'S DEEP RIPPING AND DECOMPACTION.
    - INSTALL INCIDENTAL UTILITIES TO BE RESTORED AS PART OF RESTORATION WORK
    - INSTALL IRRIGATION SYSTEM.
    - CONSTRUCT BASEBALL & SOFTBALL INFIELD AREAS
    - PLACE TOPSOIL
    - PLACE GRASS SOD AND SEED & MULCH WHERE NOTED ON THE DRAWINGS.
    - RESTORE AREAS AS DEFINED BY CONTRACT DOCUMENTS.
    - REMOVE EROSION CONTROL MEASURES AS AREAS ARE REESTABLISHED WITH GROUND COVER.

CONSTRUCTION

1. **STAKEOUT** - THE CONSTRUCTION STAKEOUT SHALL BE PERFORMED BY A LICENSED LAND SURVEYOR USING CONTROL PROVIDED ON THE "LAYOUT PLAN". DISCREPANCIES WITH BUILDING(S), CONTROL POINTS, AND/ OR TIE DIMENSIONS SHALL BE REPORTED TO THE DESIGN ENGINEER (PRIOR TO THE INSTALLATION OF IMPROVEMENTS) FOR COORDINATION AND CLARIFICATION.
2. **BOUNDARY** - BOUNDARY INFORMATION WAS TAKEN FROM NORTHERN ATHLETIC FIELD SURVEY PREPARED BY HUNT ENGINEERING AND LAND SURVEYING RECEIVED 04/02/2021 AND IS SHOWN FOR GRAPHICAL REPRESENTATION ONLY.
3. **LAYOUT** - DIMENSIONS SHOWN, WHERE APPLICABLE, SHALL BE FROM THE FACE OF CURB UNLESS SPECIFICALLY CALLED OUT OTHERWISE.
4. **DEMOLITION** - CLEARING AND GRUBBING SHALL BE LIMITED TO THE SITE BOUNDARIES OR WITHIN THE "WORK LIMIT LINE" AS DEFINED ON THE PLAN. TREES AND OBJECTS DESIGNATED FOR REMOVAL SHALL BE COORDINATED AND FIELD VERIFIED WITH PROJECT ON-SITE REPRESENTATIVE. ALL MATERIALS SHALL BE LEGALLY DISPOSED OF OFF-SITE OR RETURNED TO OWNER AS DIRECTED BY CONTRACT DOCUMENTS. ALL ITEMS NOT SPECIFICALLY CALLED OUT TO BE REMOVED SHALL REMAIN.
5. **COORDINATION** - THE CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITY WORK WITH OTHER SITE UTILITIES (I.E. GAS, ELECTRIC, LIGHTING, COMMUNICATIONS) TO AVOID POTENTIAL INSTALLATION CONFLICTS.
6. **STAGING** - THE SITE RESTORATION CONTRACTOR SHALL COORDINATE STAGING & LAYDOWN AREA WITH UNISYS AND THE ELMIRA CITY SCHOOL DISTRICT PRIOR TO THE START OF WORK. UPON FINALIZING THE STAGING/LAYDOWN AREA SIZE AND LOCATION, THE CONTRACTOR SHALL CONSTRUCT A SECURE STAGING AREA FOR STORAGE OF EQUIPMENT, MATERIALS, EMPLOYEE PARKING AND OFFICE SPACE.
7. **CLOSE-OUT** - THE CONTRACTOR'S WORK SCOPE INCLUDES BUT IS NOT LIMITED TO THE FOLLOWING AT PROJECT CLOSE-OUT TO THE SATISFACTION OF OWNER'S ON-SITE REPRESENTATIVE:
   - REMOVAL OF ANY CONSTRUCTION DEBRIS.
   - CLEANING PAVEMENT AND WALKWAY SURFACES.
   - RESTORATION OF ALL DISTURBED GRASS AND LANDSCAPED AREAS.
   - PROVIDING BONDS, GUARANTEES, CERTIFICATIONS, ETC. AS REQUIRED BY CONTRACT DOCUMENTS.
   - PROVIDING REDLINES FOR RECORD DRAWING.
   - COMPLETION OF FINAL PUNCH LIST ITEMS.

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SITE DEVELOPMENT PLANS for ELMIRA HIGH SCHOOL

765 SOUTH MAIN STREET
CHEMUNG COUNTY

CITY OF ELMIRA
STATE OF NEW YORK

JOB NO:	0980-18
SCALE:	1" = 40'
DRAWN:	RLJ
DESIGNED:	AMF
DATE:	10/01/2021

REVISIONS

DATE	BY	REVISION

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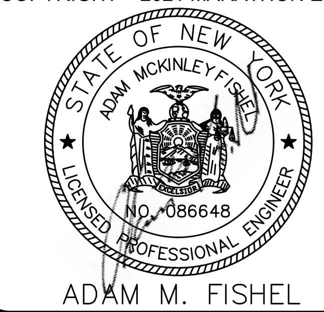

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Note Sheet
(1 of 2)

1 of 13 SHEET No:	C-1.0
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DURAEDGE "CLASSIC" INFIELD CLAY SPECIFICATION

PERFORMANCE SPECIFICATIONS

SECTION 1
INFIELD SKIN SURFACE
RECREATIONAL SPECIFICATION
DURAEDGE® CLASSIC INFIELD MIX

PART 1 – GENERAL

1.1 SUMMARY

A. This section includes the material and labor requirements for construction of a complete infield skin surface using the following material:

1. DuraEdge Classic Infield Mix

B. Related Sections:

1. Site Preparation
2. Earthwork

1.2 SUBMITTALS

A. Product Data: For the product specified, submit a 5-pound sample along with a private lab test result indicating the particle size analysis of the material specified. All tests shall be performed in accordance with ASTM F-1632.

B. Approved Testing Lab: Turf & Soil Diagnostics
35 King Street
Trumansburg, NY 14886
(607) 387-5694

1.3 PROJECT/SITE CONDITIONS

A. All site work and earthwork shall be performed in accordance with the preceding sections. Sub- base material shall compact to 90 percent. If conditions do not warrant such compaction then an imported select granular fill shall be installed. Furthermore, the compacted sub-grade shall be installed in accordance with the final slope and shall mirror finish grade in order to ensure an even depth of material once placement has occurred.

B. Under no circumstances are perforated pipe under drains necessary or recommended for use under any infield skin material. Geotextile fabric is not recommended between the compacted sub-base and the infield skin material.

DuraEdge Products, Inc.
149 South Broad Street, Grove City, PA 16127
Phone: 724-870-4250 Fax: 724-264-4174
www.DuraEdge.com

C. Amendments

1. Certain amendments are approved for use with DuraEdge Classic Infield Mix and shall be installed at the architect's discretion in accordance with the manufacturer's recommendations. Contact the manufacturer for further instructions.

2.3 EXCESS MATERIALS

A. Provide the owners' authorized representative with a 10-ton stockpile of material for future use.

PART 3 – EXECUTION

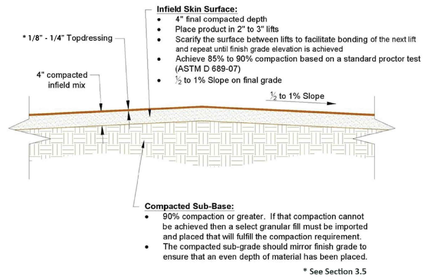
3.1 PLACEMENT

A. Place the material in lifts of 2 to 3 inches and lightly compact until an optimum compaction between 85 and 90 percent is achieved on a standard proctor test (ASTM D 689-07). Scarify the surface to facilitate bonding of the next lift and repeat until finish grade elevation is achieved. Completing this process as described will minimize settling and improve the performance of the product. See diagram in 3.1.C.

B. Depth of the material shall be 4 inches for new construction when finished and compacted. See diagram in 3.1.C.

C. Typical cross-section of infield skin:

Infield Skin Surface:
DuraEdge Infield Mix



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C. In certain instances, and where warranted, a survey of the sub-grade elevations shall occur prior to placement of the infield skin material.

1.4 QUALITY ASSURANCE

A. Installer Qualifications: Installers of materials specified shall have, at minimum, five successful installations of similar projects and materials. Installers shall be in possession of and demonstrate knowledge of the use of laser guided finishing equipment.

B. Material: If quality control samples are specified, they shall be completed at a rate of one per 250 tons of material delivered to the jobsite. All tests shall be conducted by the lab specified in Section 1.2 (B). All testing will be compared to and be in accordance with the material specifications provided in Section 2.2.

PART 2 – MATERIALS

2.1 MANUFACTURER

A. DuraEdge Classic Infield Mix is produced in various locations throughout the United States of America by and at the direction of the following manufacturer:

1. DuraEdge Products, Inc.
149 South Broad Street, Grove City, PA 16127
Phone: (866) 867-0052 Fax: (724) 264-4174
Email: info@duraedge.com Website: www.duraedge.com

2.2 MATERIALS

A. DuraEdge Classic Infield Mix is an engineered soil product which is mechanically mixed offsite in a controlled environment using a pugmill-type mixer. This process ensures thorough mixing of the sand and clay components to exact specifications.

B. Performance Specification

1. Infield mix shall be clean, dry clay mixed with washed mason-type sand resulting in a weed-free mixture that is reddish brown in color having a yield of 1.35 tons per cubic yard when placed loose or 1.5 tons per cubic yard when compacted 85% - 90% on a Standard Proctor Test (ASTM D 689-07). The material possesses the following particle size analysis:

a. Total sand content shall be 70-75 percent.

b. The combined amount of sand retained on the medium, coarse and very coarse sieves shall be greater than or equal to 50 percent.

c. The combined amount of silt and clay shall be 25-30 percent.

d. The ratio of silt divided by clay, otherwise known as the SCR, shall be 0.5 – 1.0.

e. No particles greater than 3 millimeters.

f. Equal to or less than 5 percent of particles shall be retained on the 2 millimeter.

Materials meeting this specification would be DuraEdge Classic Infield Mix as manufactured by DuraEdge Products, Inc., Grove City, PA, (866) 867-0052, or an approved equal.

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3.2 WATERING

A. In most cases, the material is delivered with optimum moisture and adding water is not necessary. If unable to achieve optimum compaction, a light application of water may be needed.

3.3 FINISH GRADING

A. For best results the material shall be finish graded with a laser device that allows accuracy to +/- 1/8 inch. A slope of 1/2 percent to 1 percent shall be placed on the infield surface in order to facilitate surface drainage.

3.4 INSPECTION

A. The finished surface of the infield shall be smooth and free from any visible dips, humps, bumps or other blemishes which would hinder the removal of water through positive surface drainage. Where warranted, a finished elevation survey shall be conducted to assure proper installation.

3.5 TOPDRESSING & CONDITIONER

A. Following successful inspection, topdressing shall be applied to the surface for optimum product performance. This topdressing is either expanded shale or calcined clay product and shall be added at a rate of 0.5 pounds per 1 square foot for maintenance, or 1 pound per 1 square foot for new construction.

A. Product is either ProSlide Expanded Shale Topdressing, a ProSlide Calcined Clay Conditioner, or a combination of both. Both are available through DuraEdge Products, Inc., Grove City, PA, (866) 867-0052.

End of Section 1

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SITE DEVELOPMENT PLANS
for
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JOB NO:	0980-18
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ADAM MCKINLEY FISHEL
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ADAM M. FISHEL

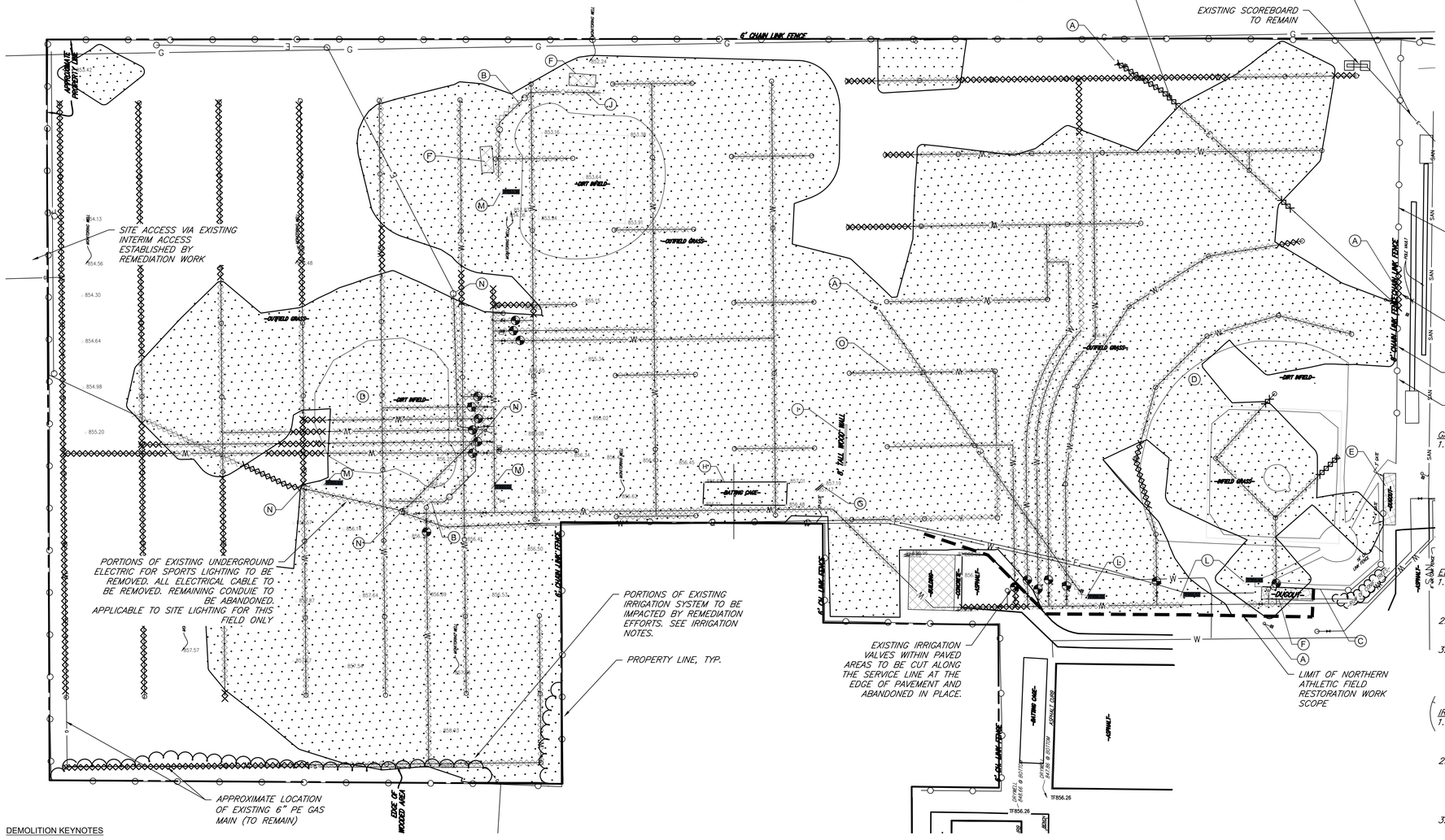
DRAWING TITLE:
Note Sheet
(2 of 2)

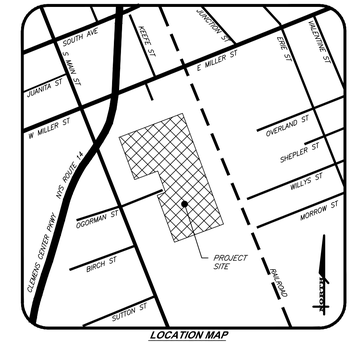
2 of 13
SHEET No:

C-1.1
DRAWING No:

0980-18
JOB No:

File: I:\Engineering\Job Files\0980-18\Drawings\Northern Athletic Fields\0980-21 NAF Notes.dwg, Last saved: 10/5/2021, Plot Date: 10/7/2021, By: AFISHEL, Plot Style: ----





LOCATION MAP
SCALE: NTS

0 40 80
SCALE

DEMOLITION KEYNOTES

- (A) EXISTING LIGHT POLE TO REMAIN
- (B) EXISTING BACKSTOP TO BE REMOVED BY OTHERS
- (C) EXISTING CHAIN LINK FENCE TO BE REMOVED BY OTHERS
- (D) EXISTING INFIELD TO BE REMOVED BY OTHERS
- (E) EXISTING DUGOUT TO REMAIN
- (F) EXISTING DUGOUT TO BE DEMOLISHED BY OTHERS
- (G) EXISTING SCOREBOARD TO BE REMOVED & RELOCATED BY OTHERS
- (H) EXISTING PORTABLE BATTING CAGE TO RELOCATED BY SCHOOL DISTRICT
- (I) EXISTING WOODEN PRACTICE WALL TO BE REMOVED BY REMEDIATION CONTRACTOR IN COORDINATION WITH THE ELMIRA CITY SCHOOL DISTRICT (ECSD) TO ALLOW FOR THE EFFICIENT RECONSTRUCTION OR REINSTALLATION OF THAT WALL. ECSD IS RESPONSIBLE FOR REINSTALLATION OR, IF NEEDED, CONSTRUCTION OF A WOODED PRACTICE WALL TO BE TAKEN DOWN BY THE REMEDIATION CONTRACTOR.
- (J) EXISTING CHAIN LINK FENCE TO BE REMOVED BY OTHERS
- (K) EXISTING CHAIN LINK FENCE TO REMAIN
- (L) EXISTING DRY WELL TO REMAIN
- (M) EXISTING DRY WELL TO BE REMOVED BY OTHERS
- (N) EXISTING LIGHT POLE TO BE REMOVED BY OTHERS
- (O) PORTIONS OF IRRIGATION SYSTEM REMOVED BY REMEDIATION WORK

MONITORING WELLS:
1. RESTORATION AND REMEDIATION CONTRACTOR SHALL REFER TO REMEDIATION DRAWINGS FOR THE LOCATION OF EXISTING MONITORING WELLS TO BE REMOVED, THOSE TO REMAIN AND THOSE TO BE INSTALLED.

LEGEND:

AREA OF SOIL REMEDIATION BY REMEDIATION CONTRACTOR WHERE PORTIONS OF IRRIGATION SYSTEM & SITE FEATURES WILL HAVE BEEN REMOVED BY REMEDIATION SCOPE.

PORTIONS OF EXISTING IRRIGATION SYSTEM TO BE REMOVED/ABANDONED BY REMEDIATION CONTRACTOR REFER TO IRRIGATION NOTES ON THIS PLAN.

GAS NOTES:
1. APPROXIMATE ALIGNMENT OF EXISTING GAS LINE SHOWN. EXACT LOCATION, SIZE, AND DEPTH IS UNKNOWN. CONTRACTOR TO FIELD VERIFY LOCATION, SIZE, AND DEPTH PRIOR TO THE START OF WORK. IF A DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL COMMUNICATE THE DISCREPANCY TO THE OWNER'S REPRESENTATIVE FOR DIRECTION BEFORE CONTINUING WORK.

ELECTRICAL NOTES:
1. APPROXIMATE ALIGNMENT OF EXISTING ELECTRICAL SERVICE SHOWN TAKEN FROM DRAWING NUMBER L-8 FROM THE SITE DEVELOPMENT PLANS PREPARED BY HASKELL, CONNOR, FROST & FOOR ARCHITECTS DATED NOVEMBER 1989.
2. IT IS UNKNOWN IF THE EXISTING ELECTRICAL LINE IS CURRENTLY IN SERVICE. CONTRACTOR TO VERIFY IF THE UTILITY IS CURRENTLY IN SERVICE PRIOR TO THE START OF WORK.
3. EXACT LOCATION, SIZE, AND DEPTH IS UNKNOWN. REMEDIATION CONTRACTOR TO FIELD VERIFY LOCATION, SIZE, AND DEPTH PRIOR TO THE START OF WORK. IF A DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL COMMUNICATE THE DISCREPANCY TO THE OWNER'S REPRESENTATIVE FOR DIRECTION BEFORE CONTINUING WORK.

IRRIGATION NOTES:
1. APPROXIMATE ALIGNMENT OF EXISTING IRRIGATION SYSTEM SHOWN TAKEN FROM DRAWING NUMBER L-8 FROM THE SITE DEVELOPMENT PLANS PREPARED BY HASKELL, CONNOR, FROST & FOOR ARCHITECTS DATED NOVEMBER 1989.
2. EXACT LOCATION, SIZE, AND DEPTH IS UNKNOWN. REMEDIATION CONTRACTOR TO FIELD VERIFY LOCATION, SIZE, AND DEPTH PRIOR TO THE START OF WORK. IF A DISCREPANCY IS DISCOVERED, THE CONTRACTOR SHALL COMMUNICATE THE DISCREPANCY TO THE OWNER'S REPRESENTATIVE FOR DIRECTION BEFORE CONTINUING WORK.
3. ALL EXISTING SPRINKLER HEADS, VALVES, CONTROL BOXES, ETC. SHALL BE REMOVED WITHIN THE WORK AREA SHOWN BY REMEDIATION CONTRACTOR. ASSOCIATED IRRIGATION PIPING MAY EITHER BE REMOVED OR ABANDONED IN PLACE TO THE EXTENT PRACTICABLE BY REMEDIATION CONTRACTOR.

REFERENCES:
1. EXISTING SITE UTILITIES SHOWN WERE TAKEN FROM DRAWING NUMBER L-8 FROM THE SITE DEVELOPMENT PLANS PREPARED BY HASKELL, CONNOR, FROST & FOOR ARCHITECTS DATED NOVEMBER 1989.
2. EXISTING SITE FEATURES & EXISTING TOPOGRAPHIC CONTOURS SHOWN WERE TAKEN FROM A DRAWING TITLED SITE-BASE PROVIDED BY B&B ENGINEERS ON FEBRUARY 23, 2021.
3. PROPOSED TOPOGRAPHIC CONTOURS SHOWN WERE TAKEN FROM THE GRADING PLAN PROVIDED BY B&B ENGINEERS ON FEBRUARY 17, 2021.

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SITE DEVELOPMENT PLANS for ELMIRA HIGH SCHOOL

765 SOUTH MAIN STREET
CHEMUNG COUNTY
CITY OF ELMIRA
STATE OF NEW YORK

JOB NO:	0980-18
SCALE:	1" = 40'
DRAWN:	RLJ
DESIGNED:	AMF
DATE:	10/01/2021

REVISIONS

DATE	BY	REVISION

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ADAM M. FISHEL

DRAWING TITLE:
Demolition Plan

3 of 13
SHEET No:

C-2.0
DRAWING No:

0980-18
JOB No:

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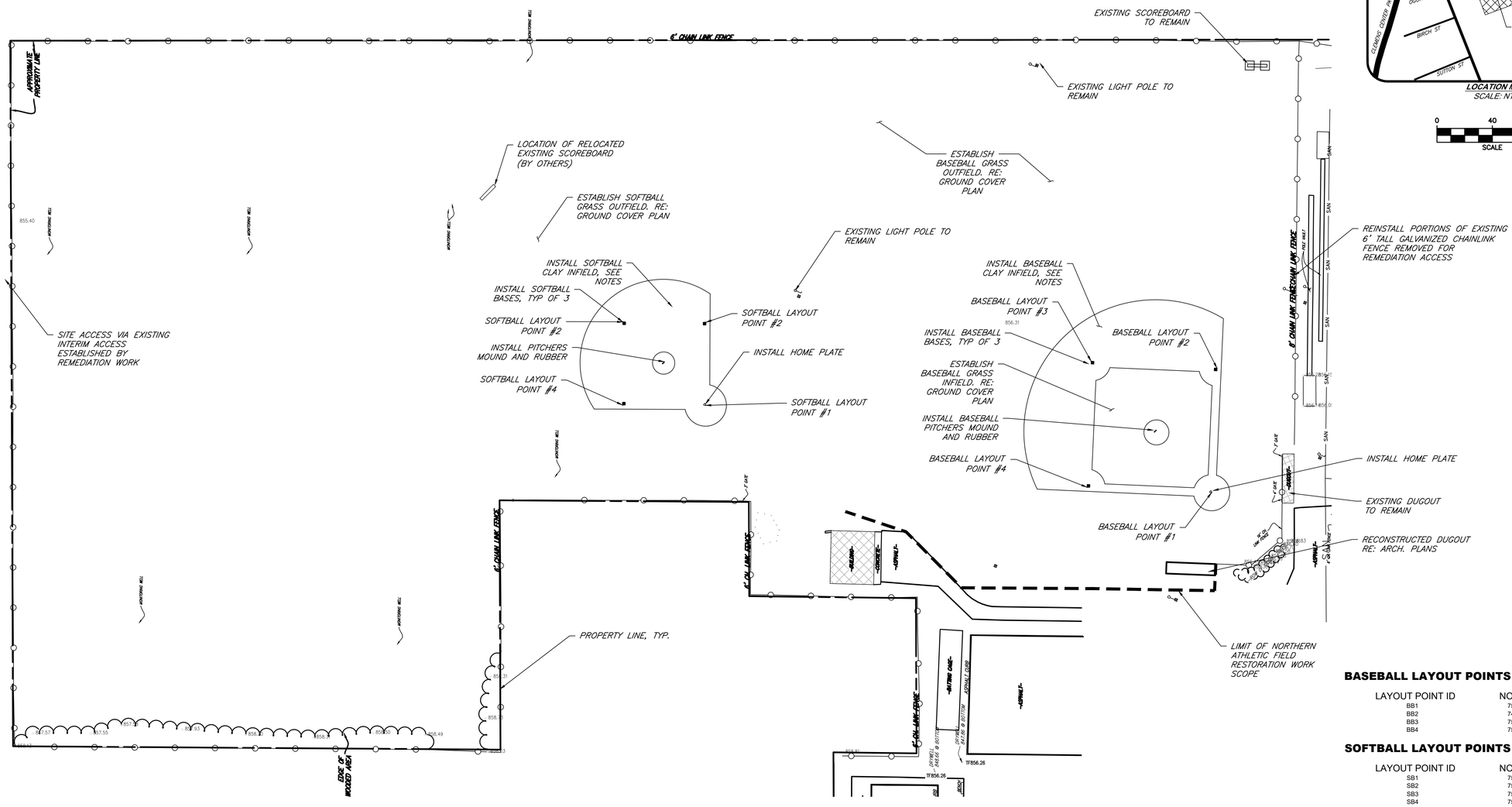

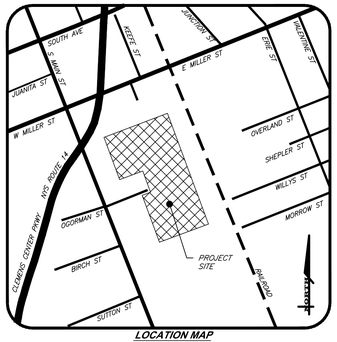

LOCATION MAP
SCALE: NTS

0 40 80
SCALE

BASEBALL LAYOUT POINTS

LAYOUT POINT ID	NORTHING	EASTING
BB1	754841.7875	761904.2293
BB2	745871.6293	761989.1379
BB3	754959.8129	761959.9079
BB4	754926.6960	761874.8375

SOFTBALL LAYOUT POINTS

LAYOUT POINT ID	NORTHING	EASTING
SB1	755204.3032	761826.5498
SB2	755226.4321	761882.3199
SB3	755282.2023	761860.1910
SB4	755260.0734	761804.4209

WOODEN PRACTICE WALL

1. EXISTING WALL TO BE REMOVED BY REMEDIATION CONTRACTOR.
2. ECSD IS RESPONSIBLE FOR REINSTALLATION OR, IF NEEDED, CONSTRUCTION OF A WOODEN PRACTICE WALL TO BE TAKEN DOWN BY THE REMEDIATION CONTRACTOR.

CLAY INFIELD SOFTBALL & BASEBALL

1. CLAY INFIELD MATERIAL INCLUDED IN BASE BID SHALL BE DURAEDGE CLASSIC COMPLETE WITH TOP DRESSING. INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. REFER TO NOTE SHEETS FOR SPECIFICATIONS.
2. REFER TO GROUND COVER PLAN FOR AREA OF INFIELDS.

BASEBALL BASES & PITCHING RUBBER

1. HOME PLATE SHALL BE "HOLLYWOOD MLB PRO SYLE HOME PLATE" BY SCHUTT, COMPLETE WITH GROUND ANCHOR, ANCHOR SLEEVE AND GROUND MOUNT ANCHOR PLUGS.
2. FIRST, SECOND AND THIRD BASES SHALL BE "HOLLYWOOD IMPACT" BY SCHUTT, COMPLETE WITH GROUND ANCHORS, ANCHOR SLEEVES AND GROUND MOUNT ANCHOR PLUGS.
3. PITCHING RUBBER SHALL BE "HOLLYWOOD MLB" OFFICIAL FOUR-SIDED PITCHING RUBBER BY SCHUTT.
4. BASES AND PITCHING RUBBER TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
5. REFER TO LAYOUT TABLE FOR BASE COORDINATES FOR INSTALLATION.

SOFTBALL BASES & PITCHING RUBBER

1. HOME PLATE SHALL BE "HOLLYWOOD MLB PRO SYLE HOME PLATE" BY SCHUTT, COMPLETE WITH GROUND ANCHOR, ANCHOR SLEEVE AND GROUND MOUNT ANCHOR PLUGS.
2. FIRST, SECOND AND THIRD BASES SHALL BE "HOLLYWOOD IMPACT" BY SCHUTT, COMPLETE WITH GROUND ANCHORS, ANCHOR SLEEVES AND GROUND MOUNT ANCHOR PLUGS.
3. PITCHING RUBBER SHALL BE "HOLLYWOOD MLB" OFFICIAL FOUR-SIDED PITCHING RUBBER BY SCHUTT.
4. BASES AND PITCHING RUBBER TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
5. REFER TO LAYOUT TABLE FOR BASE COORDINATES FOR INSTALLATION.

NOTES:

1. *REFER TO DETAIL SHEET (2 OF 2) FOR SOFTBALL AND BASEBALL FIELD DIMENSIONS.*

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SITE DEVELOPMENT PLANS for ELMIRA HIGH SCHOOL

765 SOUTH MAIN STREET
CHEMUNG COUNTY
STATE OF NEW YORK
CITY OF ELMIRA

JOB NO:	0980-18
SCALE:	1"=40'
DRAWN:	RLJ
DESIGNED:	AMF
DATE:	10/01/2021

REVISIONS

DATE	BY	REVISION

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ADAM MCKINLEY FISHEL
NO. 086648
LICENSED PROFESSIONAL ENGINEER

ADAM M. FISHEL

DRAWING TITLE:
Layout Plan

4 of 13
SHEET No:

C-3.0
DRAWING No:

0980-18
JOB No:

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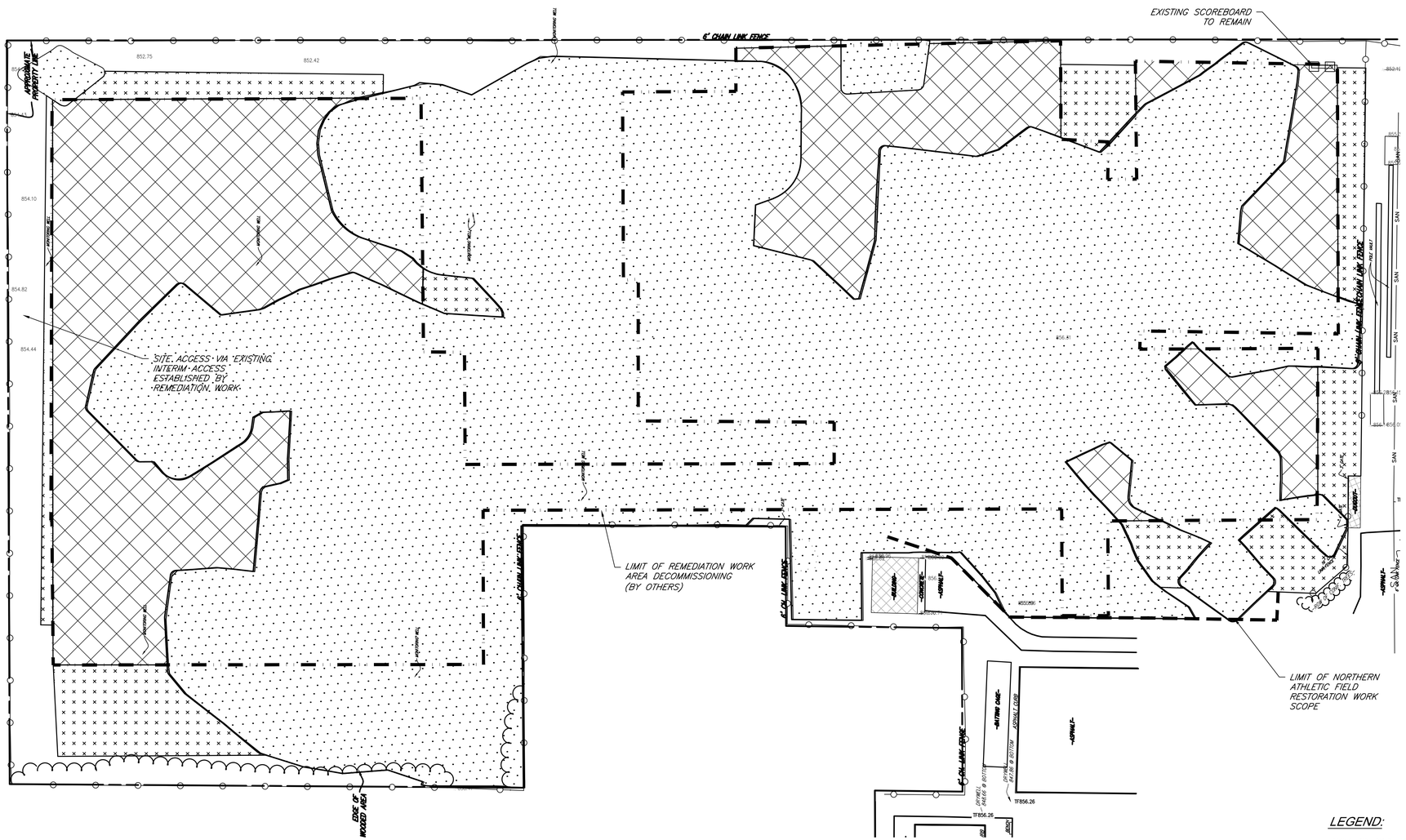

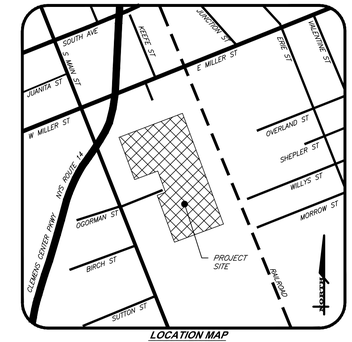

LOCATION MAP
SCALE: NTS

0 40 80
SCALE

NOTES:
1. REFER TO C5.0 FOR EARTHWORK SPECIFICATIONS.
2. REFER TO NOTE SHEET C1.0 FOR SOIL MANAGEMENT NOTES.

LEGEND:

AREA OF SOIL REMEDIATION. SITE REMEDIATION CONTRACTOR WILL PLACE BACKFILL AND TOPSOIL TO ACHIEVE FINISHED GRADE ELEVATIONS AS NOTED ON SHEET C-5.0. SITE RESTORATION CONTRACTOR SHALL PROVIDE FINE GRADING WORK ON AN AS-NEEDED BASIS AT A TIME AND MATERIAL RATE AS AGREED UPON BETWEEN UNISYS AND THE RESTORATION CONTRACTOR.

AREA OF REMEDIATION WORK AREA DECOMMISSIONING BY REMEDIATION CONTRACTOR. REMEDIATION CONTRACTOR WILL STRIP EXISTING SOD AND TOPSOIL AS PART OF REMEDIATION WORK AREA DECOMMISSIONING. REMEDIATION CONTRACTOR TO PROVIDE SOIL RESTORATION/DECOMPACTION. REFER TO NOTES SHEET FOR SOIL RESTORATION/DECOMPACTION REQUIREMENTS.

EXISTING SOD TO BE STRIPPED BY SITE REMEDIATION CONTRACTOR. SITE REMEDIATION CONTRACTOR SHALL PLACE STRIPPED SOD ON SEPARATION POLY MEMBRANE LOCATED ADJACENT TO TRENCH. SEPARATION POLY MEMBRANE BY THE UNISYS REMEDIATION CONTRACTOR. THE UNISYS REMEDIATION CONTRACTOR WILL THEN PERFORM NECESSARY SCREENING TO CONFIRM PRESENCE OR ABSENCE OF CONTAMINATION. UPON COMPLETION OF SOIL TESTING, THE UNISYS REMEDIATION CONTRACTOR WILL BE RESPONSIBLE FOR OFFSITE EXPORT OF STRIPPED SOD.

APPROXIMATE LIMIT OF REMEDIATION WORK AREA DECOMMISSIONING. SITE CONTRACTOR TO CONFIRM WITH OWNER'S REMEDIATION CONTRACTOR.

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SITE DEVELOPMENT PLANS for ELMIRA HIGH SCHOOL

765 SOUTH MAIN STREET
CHEMUNG COUNTY
CITY OF ELMIRA
STATE OF NEW YORK

JOB NO:	0980-18
SCALE:	1" = 40'
DRAWN:	RLJ
DESIGNED:	AMF
DATE:	10/01/2021

REVISIONS

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ADAM M. FISHEL

DRAWING TITLE:
Soil Management Plan (1 of 5)

5 of 13
SHEET No:

C-4.0
DRAWING No:

0980-18
JOB No:

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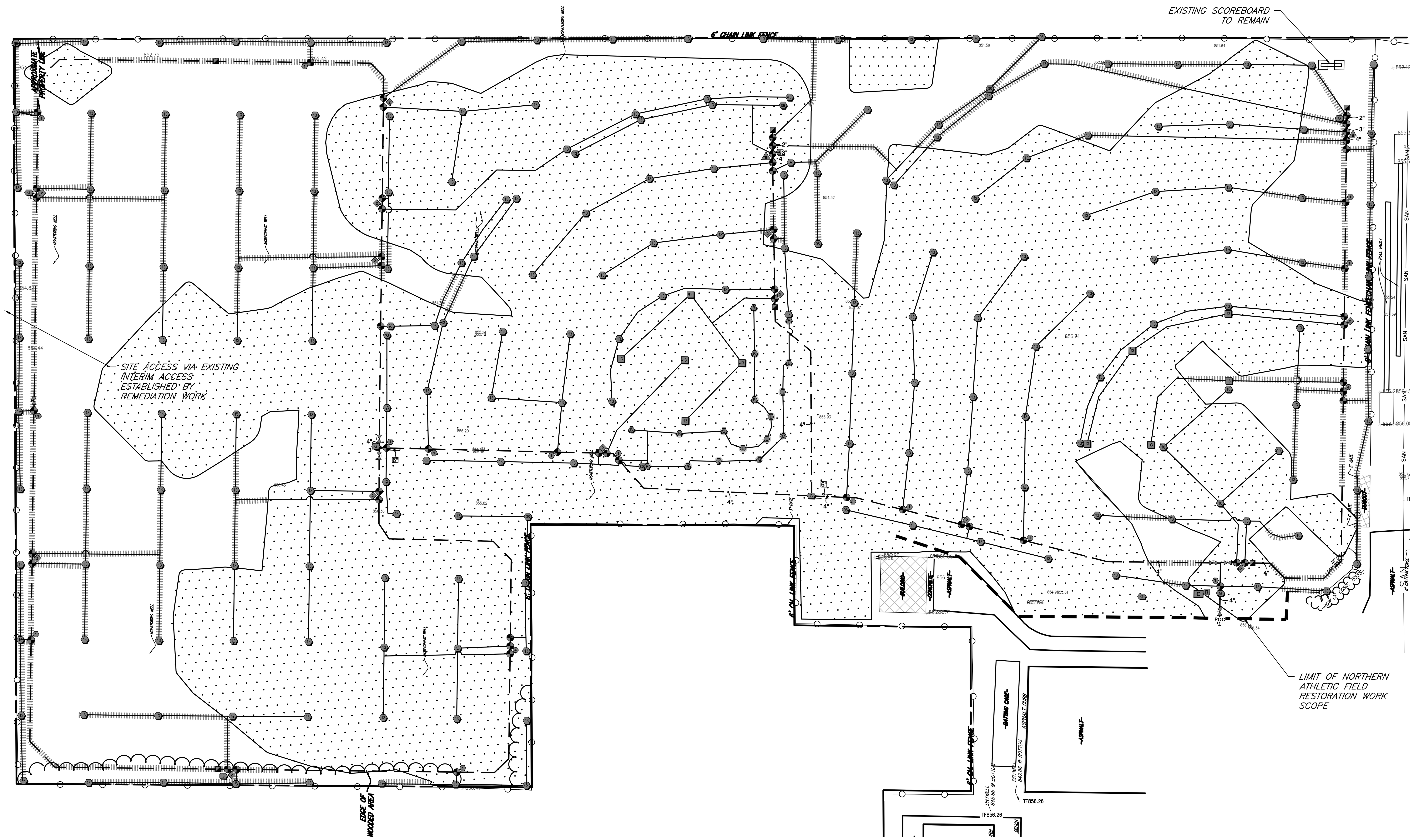

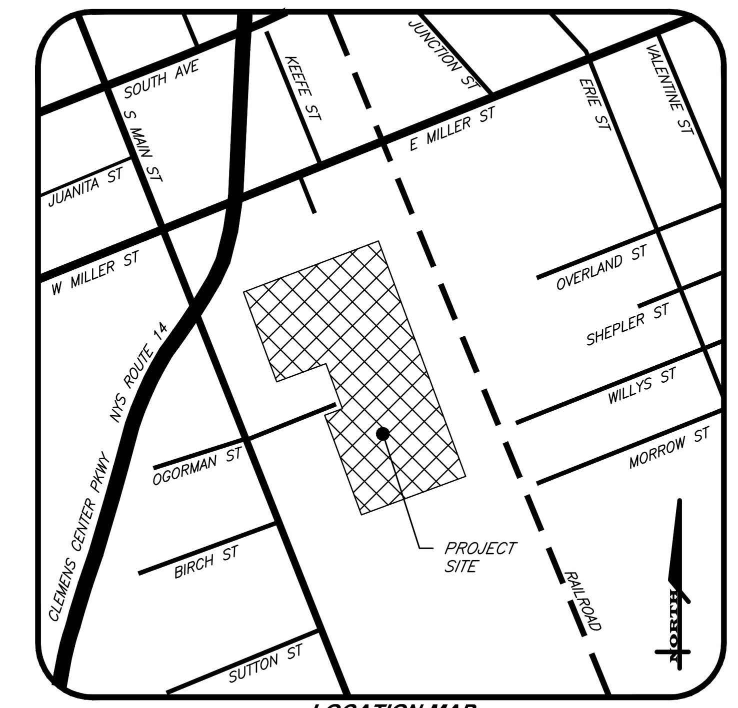

LOCATION MAP
SCALE: NTS

0 40 80
SCALE

NOTES:
1. REFER TO C5.0 FOR EARTHWORK SPECIFICATIONS.
2. REFER TO NOTE SHEET C1.0 FOR SOIL MANAGEMENT NOTES.

LEGEND:

(dotted pattern) IRRIGATION SYSTEM INSTALLATION WITHIN IMPORTED FILL ZONE BY REMEDIATION CONTRACTOR. SOILS EXCAVATED WITHIN THIS AREA AS PART OF IRRIGATION SYSTEM SHALL BE SET ASIDE AND REUSED AS BACKFILL FOR THE IRRIGATION SYSTEM.

(hatched line) IRRIGATION SYSTEM INSTALLATION WITHIN NATIVE SOILS ZONE. SITE REMEDIATION CONTRACTOR SHALL PLACE EXCAVATED MATERIAL (SOD, TOPSOIL, SUBSOIL, ETC.) ON SEPARATION POLY MEMBRANE LOCATED ADJACENT TO TRENCH. SEPARATION POLY TO BE PROVIDED REMEDIATION CONTRACTOR. THE UNISYS REMEDIATION CONTRACTOR WILL THEN PERFORM NECESSARY SCREENING TO CONFIRM PRESENCE OR ABSENCE OF CONTAMINATION. UPON COMPLETION OF SOIL TESTING, THE UNISYS REMEDIATION CONTRACTOR WILL BE RESPONSIBLE FOR OFFSITE EXPORT OF EXCAVATED MATERIAL. PRIOR TO IRRIGATION SYSTEM INSTALLATION, THE REMEDIATION CONTRACTOR SHALL INSTALL DEMARCATION LAYER WITHIN THE TRENCH, REFER TO DETAIL 33 ON SHEET 22 OF THE REMEDIATION DRAWINGS. UPON COMPLETION OF IRRIGATION SYSTEM INSTALLATION, THE REMEDIATION CONTRACTOR SHALL THEN IMPORT APPROVED BACKFILL AS DEFINED BY SPECIFICATION SECTION 312323. SITE REMEDIATION CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 312323 FOR PRE-APPROVAL AND TESTING REQUIREMENTS FOR IMPORTED SOIL MATERIAL.

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ADAM M. FISHEL

DRAWING TITLE:
Soil Management Plan (2 of 5)

6 of 13
SHEET No:
0980-18
JOB No:
C-4.1
DRAWING No:

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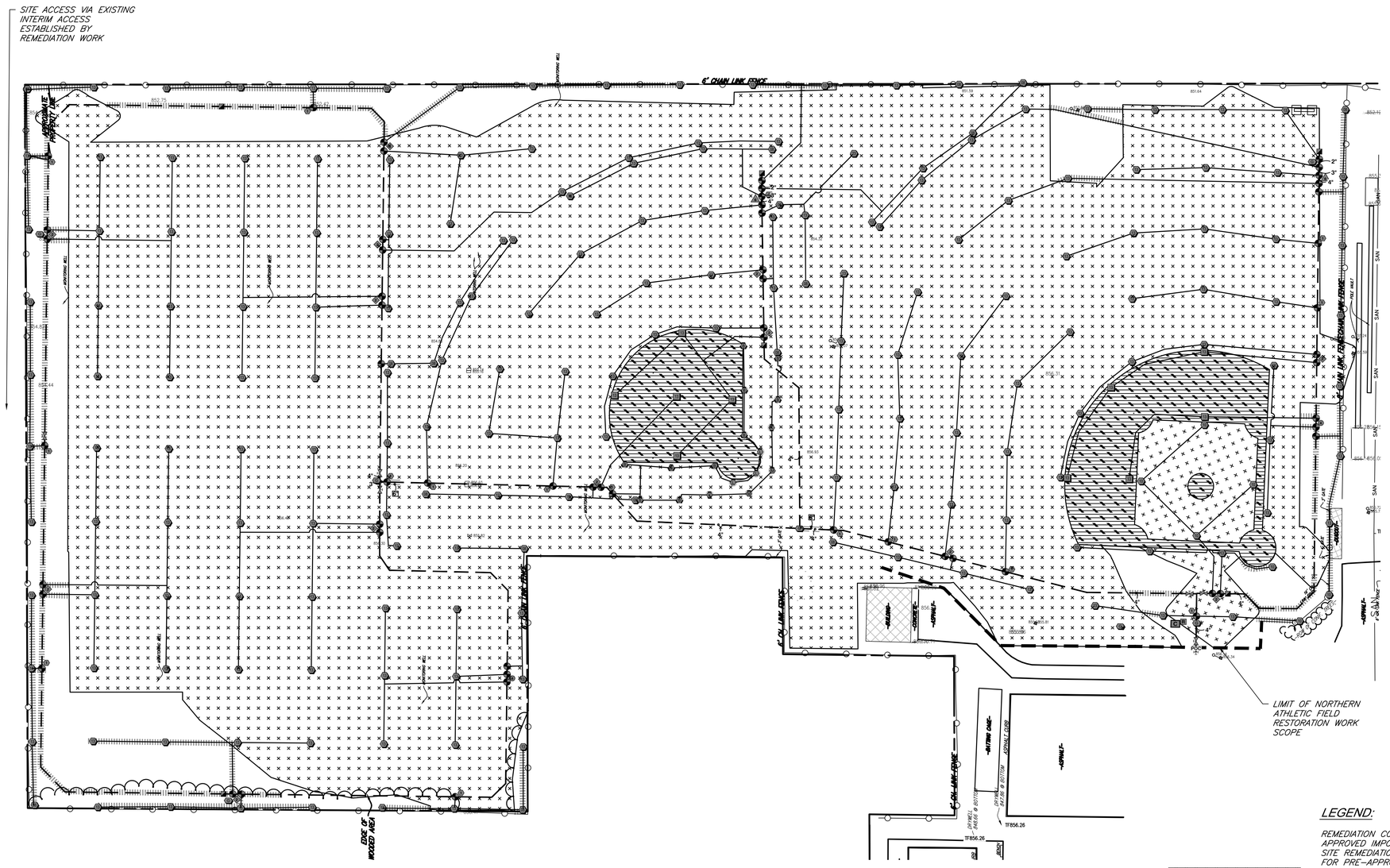

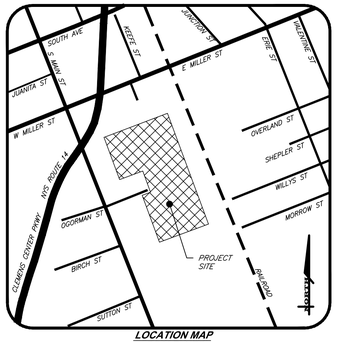

LOCATION MAP
SCALE: NTS

0 40 80
SCALE

NOTES:
1. REFER TO C5.0 FOR EARTHWORK SPECIFICATIONS.
2. REFER TO NOTE SHEET C1.0 FOR SOIL MANAGEMENT NOTES.

LEGEND:

REMEDIATION CONTRACTOR SHALL PLACE A 6–INCH THICK LAYER OF OF APPROVED IMPORTED TOPSOIL AS DEFINED BY SPECIFICATION SECTION 312323. SITE REMEDIATION CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 312323 FOR PRE–APPROVAL AND TESTING REQUIREMENTS FOR IMPORTED SOIL MATERIAL. FINISHED TOPSOIL GRADES SHALL BE BLENDED/SMOOTHED TO MEET EXISTING GRADES AT LIMIT OF TOPSOIL PLACEMENT. SITE RESTORATION CONTRACTOR SHALL PROVIDE FINE GRADING WORK ON AN AS–NEEDED BASIS AT A TIME AND MATERIAL RATE AS AGREED UPON BETWEEN UNISYS AND THE RESTORATION CONTRACTOR. ANY ADDITIONAL TOPSOIL REQUIRED SHALL BE APPROVED IMPORTED TOPSOIL PROVIDED BY RESTORATION CONTRACTOR.

REMEDIATION CONTRACTOR SHALL PLACE IMPORTED APPROVED BACKFILL TO ACHIEVE SUBGRADE ELEVATION EQUAL TO 4–INCHES BELOW FINISHED GRADE NOTED ON C–5.0 IN PREPARATION OF CLAY INFIELD. SITE RESTORATION CONTRACTOR SHALL PROVIDE FINE GRADING WORK ON AN AS–NEEDED BASIS AT A TIME AND MATERIAL RATE AS AGREED UPON BETWEEN UNISYS AND THE RESTORATION CONTRACTOR. ANY ADDITIONAL BACKFILL REQUIRED SHALL BE APPROVED IMPORTED BACKFILL PROVIDED BY RESTORATION CONTRACTOR.

REMEDIATION CONTRACTOR SHALL PLACE A 6–INCH THICK LAYER OF OF APPROVED IMPORTED TOPSOIL AS DEFINED BY SPECIFICATION SECTION 312323 ALONG NEW IRRIGATION SYSTEM TRENCHES. REMEDIATION CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 312323 FOR PRE–APPROVAL AND TESTING REQUIREMENTS FOR IMPORTED SOIL MATERIAL. FINISHED TOPSOIL GRADES SHALL BE BLENDED/SMOOTHED TO MEET EXISTING GRADES AT LIMIT OF TOPSOIL PLACEMENT. SITE RESTORATION CONTRACTOR SHALL PROVIDE FINE GRADING WORK ON AN AS–NEEDED BASIS AT A TIME AND MATERIAL RATE AS AGREED UPON BETWEEN UNISYS AND THE RESTORATION CONTRACTOR. ANY ADDITIONAL TOPSOIL REQUIRED SHALL BE APPROVED IMPORTED TOPSOIL PROVIDED BY RESTORATION CONTRACTOR.

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ADAM M. FISHEL

DRAWING TITLE:
Soil Management Plan (3 of 5)

7 of 13 SHEET No:	C-4.2
0980-18 JOB No:	DRAWING No:

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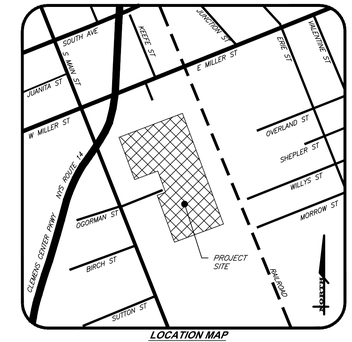

LOCATION MAP
SCALE: NTS

0 40 80
SCALE

LEGEND:

RESTORATION CONTRACTOR SHALL PLACE APPROVED IMPORTED INFIELD CLAY AND TOP DRESSING. REFER TO LAYOUT PLAN FOR CLAY MATERIAL. SITE RESTORATION CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 312323 FOR PRE-APPROVAL AND TESTING REQUIREMENTS FOR IMPORTED CLAY AND TOP DRESSING MATERIAL. REFER TO DURAEDGE SPECIFICATION ON C-1.1.

RESTORATION CONTRACTOR SHALL PLACE APPROVED IMPORTED GRASS SOD. REFER TO NOTES SHEET FOR SOD MATERIAL INFORMATION. SITE RESTORATION CONTRACTOR SHALL REFER TO SPECIFICATION SECTION 312323 FOR PRE-APPROVAL AND TESTING REQUIREMENTS FOR IMPORTED SOD MATERIAL. RE: DETAIL 1/D-1.

RESTORATION CONTRACTOR SHALL ESTABLISH GRASS COVER WITH SEED AND MULCH IN ALL OTHER REMAINING DISTURBED AREAS. FINAL LIMITS OF RESTORATION VIA SEED AND MULCH TO BE COORDINATED WITH THE REMEDIATION CONTRACTOR BY THE SITE RESTORATION CONTRACTOR. DETAIL 1/D-1.

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SITE DEVELOPMENT PLANS for ELMIRA HIGH SCHOOL

765 SOUTH MAIN STREET
CHEMUNG COUNTY
STATE OF NEW YORK
CITY OF ELMIRA

JOB NO:	0980-18
SCALE:	1"=40'
DRAWN:	RLJ
DESIGNED:	AMF
DATE:	10/01/2021

REVISIONS

DATE	BY	REVISION

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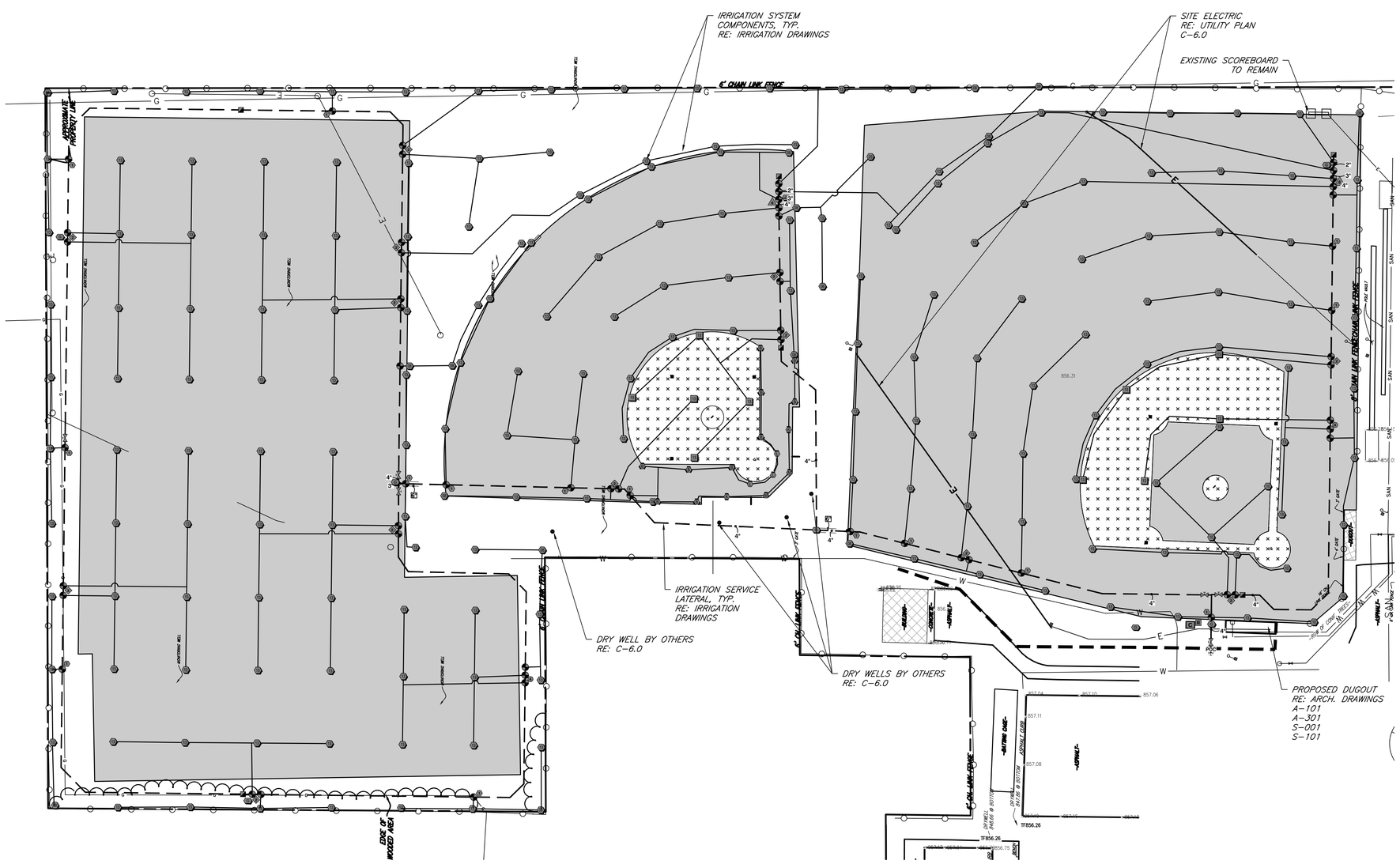
DRAWING TITLE:
Soil Management Plan (4 of 5)

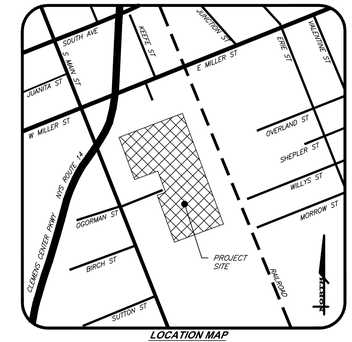
8 of 13
SHEET No:

C-4.3
DRAWING No:

0980-18
JOB No:

File: I:\Engineering\Job Files\0980-18\Drawings\Northern Athletic Fields\0980-21 NAF Plans.dwg, Last saved: 10/5/2021, Plot Date: 10/7/2021, By: AFISHEL, Plot Style: ----





LOCATION MAP
SCALE: NTS

0 40 80
SCALE

LEGEND:

- INFIELD CLAY. RE: C-4.3
- GRASS SOD. RE: C-4.3
- GRASS COVER. RE: C-4.3

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DRAWING TITLE:
Soil Management Plan (5 of 5)

9 of 13
SHEET No:

C-4.4
DRAWING No:

0980-18
JOB No:

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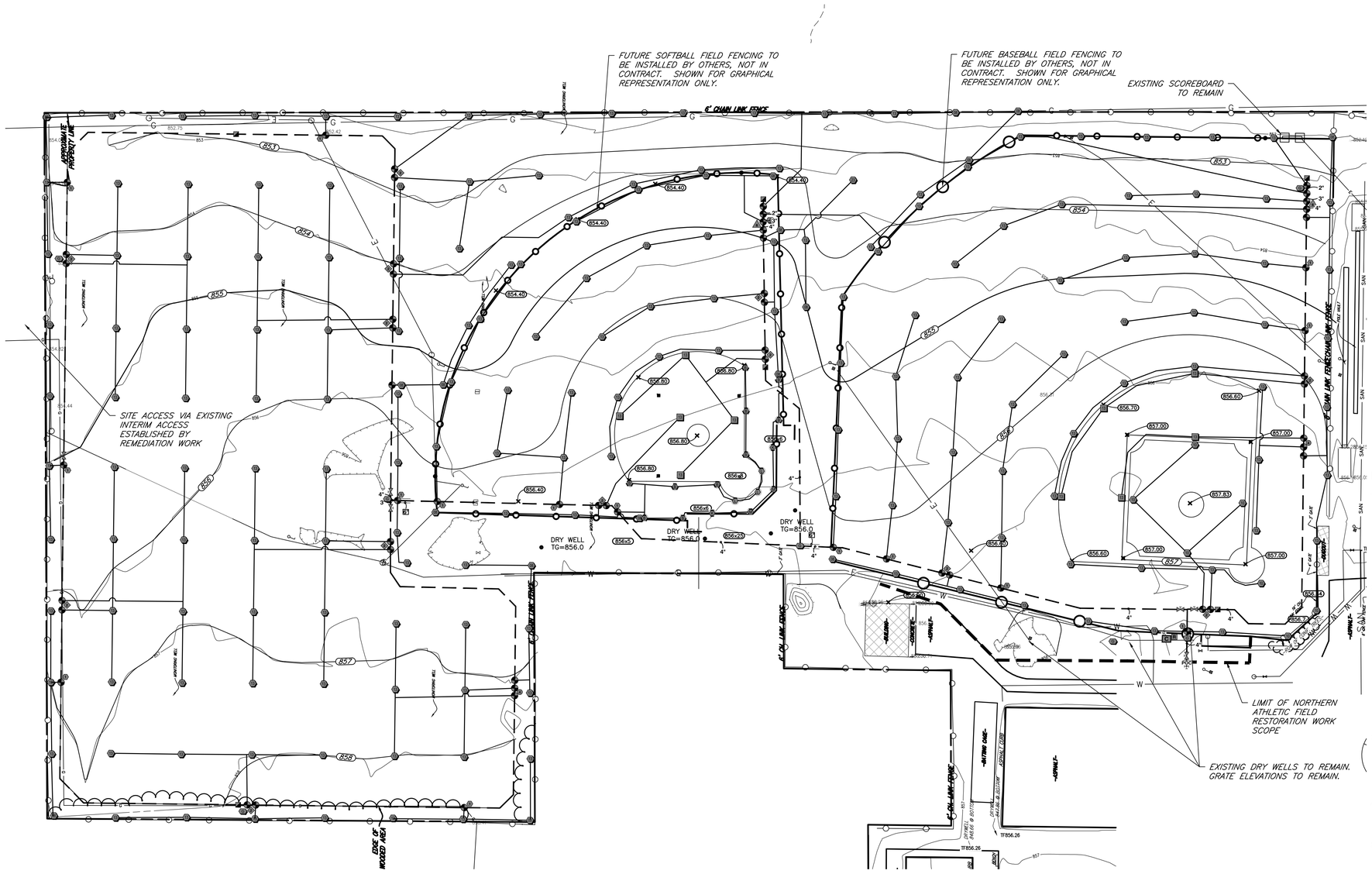

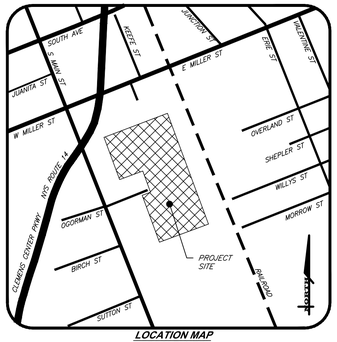

LOCATION MAP
SCALE: NTS

0 40 80
SCALE

EARTHWORK

1. **PREPARATION** - PRIOR TO START OF EARTHWORK OPERATIONS THE CONTRACTOR SHALL COMPLETE THE FOLLOWING APPLICABLE ITEMS AS DEFINED BY CONTRACT DOCUMENTS:
   - **SITE DEMOLITION** - REMOVAL AND DISPOSAL OFF-SITE IN A LEGAL MANNER; STRUCTURES, UTILITIES, PAVEMENTS, ETC.
   - **CLEARING AND GRUBBING** - REMOVAL AND DISPOSAL OFF-SITE IN A LEGAL MANNER; TREES, BRUSH, STUMPS, ETC.
   - **TOPSOIL STRIPPING** - STRIP AND STOCKPILE TOPSOIL FOR REUSE. EXCESS TOPSOIL MAY BE REMOVED FROM SITE WITH APPROVAL BY OWNER AND MUNICIPALITY.
2. **RESPONSIBILITY** - THE CONTRACTOR IS RESPONSIBLE FOR:
   - **ESTIMATE** - COMPLETION OF A QUANTITY TAKEOFF TO DETERMINE THE VOLUME OF CUT, FILL, AND TOPSOIL. COMPARE AND COORDINATE WITH INFORMATION PROVIDED BY THE DESIGN ENGINEER.
   - **GRADE TOLERANCES** - ESTABLISHING DESIGN SUBGRADE ELEVATIONS TO WITHIN ONE TENTH OF ONE FOOT (0.10') IN PAVEMENT AREAS (INCLUDING WALKS) AND TO WITHIN THIRTY-THREE HUNDREDTHS OF ONE FOOT (0.33') FOR ALL REMAINING AREAS.
   - **COMPACTION** - ACHIEVING THE SPECIFIED MINIMUM COMPACTION VALUES FOR EMBANKMENT/FILL AREAS. THE TERMS "FILL" AND EMBANKMENT" ARE INTERCHANGEABLE.
   - **CUTS** - ONCE EXCAVATIONS ARE SHAPED TO THE DESIGN GRADES THE AREAS SHALL BE PROTECTED TO ASSURE THAT THE INTEGRITY OF MATERIAL IS NOT COMPROMISED BY CONSTRUCTION VEHICLES AND/OR IMPROPER DRAINAGE. AREAS DETERMINED BY CONTRACTOR TO BE **NOT** SUITABLE FOR SUBGRADE PLACEMENT SHALL BE IMMEDIATELY REPORTED WHEN THE SUBGRADE IS ESTABLISHED TO OWNER'S REPRESENTATIVE. STABILIZATION MEASURES FOR CUT AREAS MAY BE CONSIDERED BY OWNER'S REPRESENTATIVE AS A CHANGE TO THE BASE CONTRACT.
3. **TESTING** - THE FOLLOWING MAXIMUM DRY DENSITIES SHALL BE ACHIEVED AS MEASURED BY THE MODIFIED PROCTOR METHOD ASTM D-1557:
   - **85%** IN REMAINING AREAS

   THE AGREEMENT BETWEEN THE OWNER AND CONTRACTOR SHALL DEFINE THE NUMBER OF TESTS AND RESPONSIBILITY. WE RECOMMEND IN EMBANKMENT AREAS ONE PER LIFT AND/OR ONE PER 1,000 CUBIC YARDS.
4. **LIFT THICKNESS** - THE MAXIMUM LIFT THICKNESS UNDER PAVEMENTS, WALKS, AND STRUCTURAL FILLS SHALL BE 12 INCHES. HAND OPERATED COMPACTION FILLS SHALL NOT EXCEED 6 INCHES.
5. **FILL MATERIAL TYPES** - FILL REQUIRED TO ACHIEVE DESIGN GRADE SHOULD BE CLASSIFIED GENERAL FILL. GENERAL FILL IS THAT MATERIAL USED TO ACHIEVE GRADE OUTSIDE OF THESE AREAS. EARTHEN MATERIALS USED FOR STRUCTURAL AND GENERAL FILL SHOULD MEET THE FOLLOWING MATERIAL PROPERTY REQUIREMENTS:

   - IMPORTED GENERAL EARTHEN FILL: MATERIAL SHALL CONFORM TO SOILS SPECIFICATION.

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Grading Plan

10 of 13 SHEET No:	C-5.0
0980-18 JOB No:	DRAWING No:

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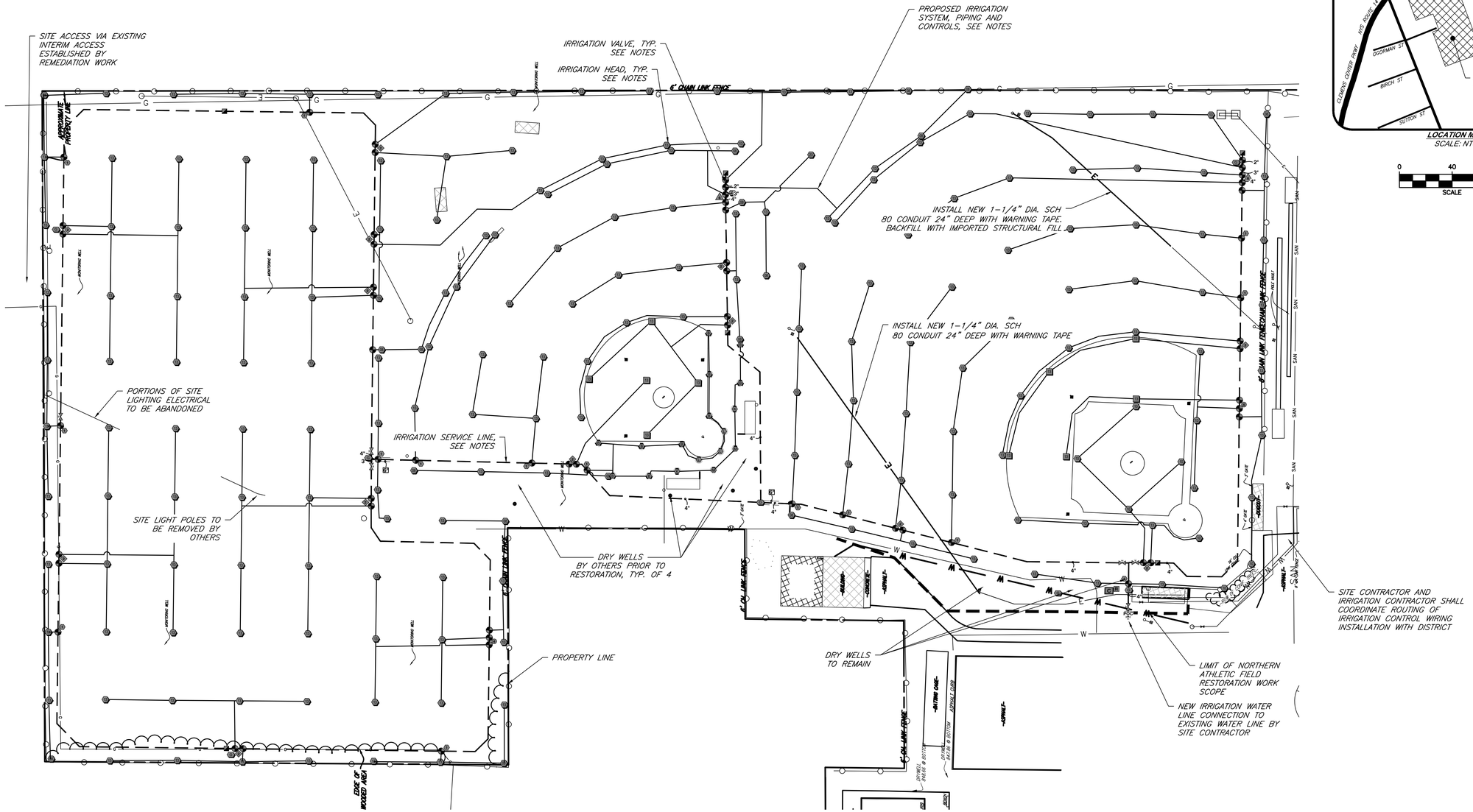

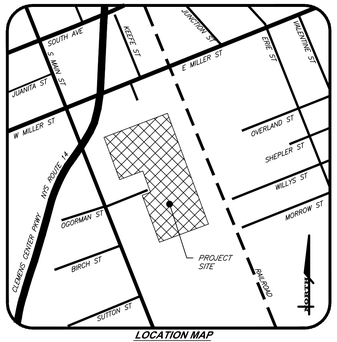

LOCATION MAP
SCALE: NTS

0 40 80
SCALE

REFERENCES:
1. PROPOSED IRRIGATION LAYOUT SHOWN WAS TAKEN FROM THE IRRIGATION DESIGN AS PROVIDED BY SITEONE ON 4/1/21.

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DRAWING TITLE:
Utility Plan

11 of 13
SHEET No:

C-6.0
DRAWING No:

0980-18
JOB No:

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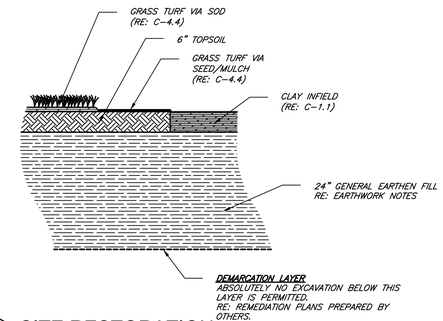
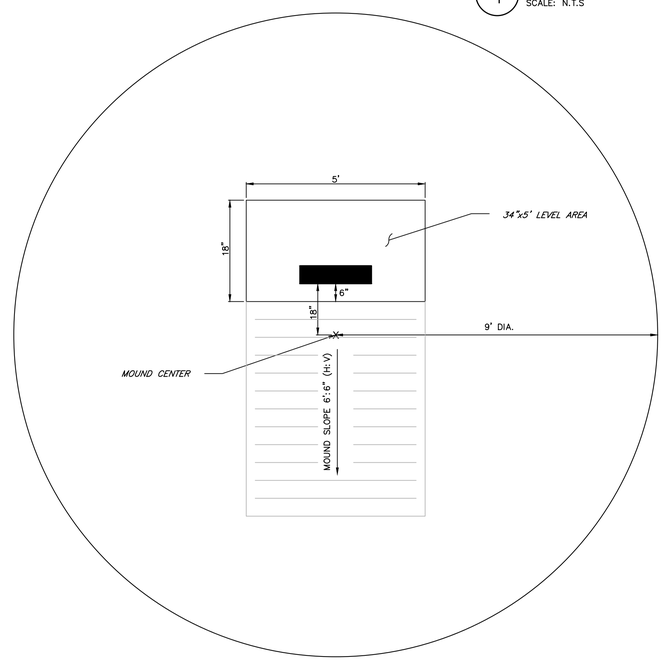
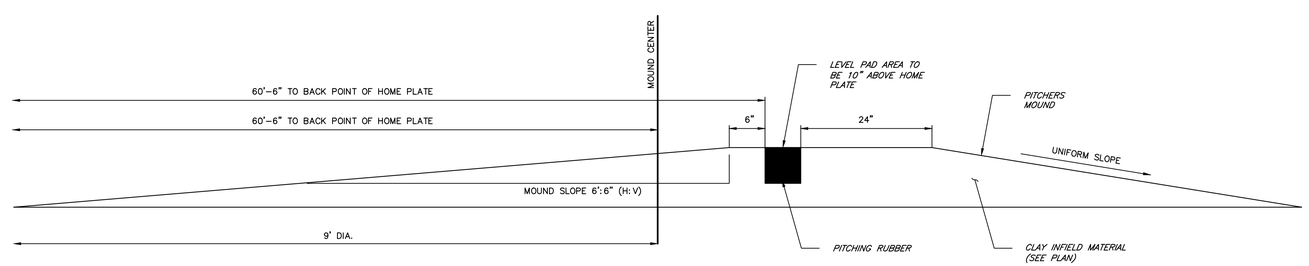


1 SITE RESTORATION

SCALE: N.T.S





NOTES:

1. THE TOP OF THE PITCHER'S MOUND SHALL BE 10-INCHES ABOVE THE TOP SURFACE OF HOME PLACE
2. SLOPE FROM A POINT 6-INCHES IN FRONT OF THE PITCHER'S RUBBER TO A POINT 6-FEET TOWARD HOME PLATE SHALL BE 1-INCH TO 1-FOOT (V:H).
3. PITCHING MOUND IS A 18-FOOT DIAMETER CIRCLE CENTERED 59-FEET FROM THE BACK POINT OF HOME PLATE.
4. LOCATE THE FRONT EDGE OF THE PITCHER'S RUBBER 18-INCHES BEHIND THE CENTER OF THE MOUND. FRONT EDGE OF THE PITCHER'S RUBBER SHALL BE 60-FEET, 6-INCHES FROM THE BACK POINT OF HOME PLATE.
5. THE LEVEL AREA SURROUNDING THE PITCHER'S RUBBER SHALL BE 6-INCHES IN FRONT OF THE RUBBER, 18-INCHES TO EACH SIDE AND 22-INCHES TO THE REAR OF THE RUBBER. TOTAL AREA IS 5-FEET X 34-INCHES.

2 BASEBALL PITCHER'S MOUND

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DRAWING TITLE:
Detail Sheet
(1 of 2)

12 of 13 SHEET No:	D-1.0
0980-18 JOB No:	DRAWING No:

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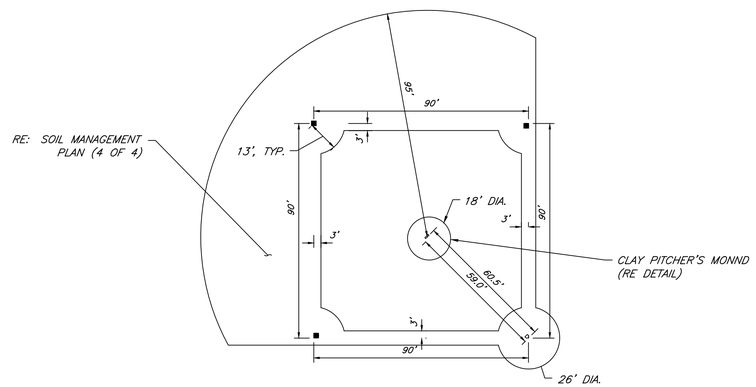
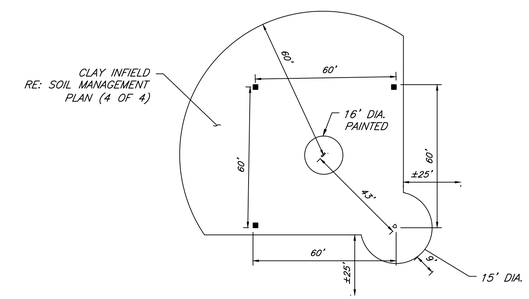
BASEBALL LAYOUT NOTES:
1. REFER TO SHEET D-1.0 FOR PITCHER'S MOUND DETAILS.
2. REFER TO LAYOUT PLAN FOR FIELD LAYOUT POINTS.
3. REFER TO LAYOUT PLAN FOR BASE, HOME PLATE AND PITCHING RUBBER SPECIFICATION.



1 BASEBALL FIELD LAYOUT
SCALE: 1"=30'

BASEBALL LAYOUT NOTES:
1. REFER TO LAYOUT PLAN FOR FIELD LAYOUT POINTS.
2. REFER TO LAYOUT PLAN FOR BASE, HOME PLATE AND PITCHING RUBBER SPECIFICATION.



2 SOFTBALL FIELD LAYOUT
SCALE: 1"=30'

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Detail Sheet
(2 of 2)

13 of 13 SHEET No:	D-2.0
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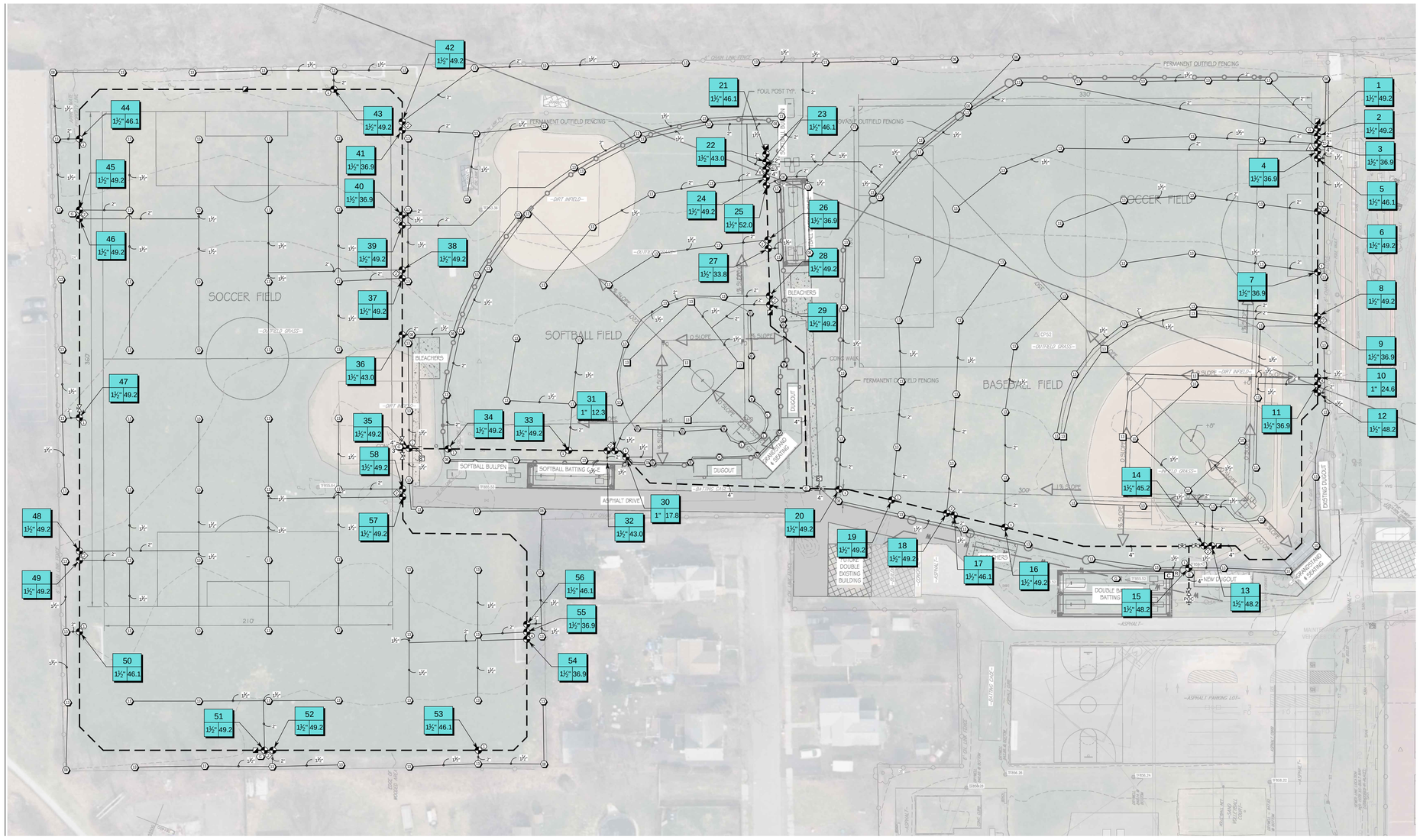

IRRIGATION_SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY
M1 M2 M3	HUNTER MP1000 PROS-04-PRS40-CV	5
M1 M2 M3	HUNTER MP2000 PROS-04-PRS40-CV	2
M1 M2 M3	HUNTER MP3000 PROS-04-PRS40-CV	10

SYMBOL	MANUFACTURER/MODEL	QTY
10	HUNTER I-40-04-SS	17
12	HUNTER I-40-04-SS	7
13	HUNTER I-40-04-SS	177
14	HUNTER I-40-04-SS	1
15	HUNTER I-40-04-SS-H5	10

SYMBOL	MANUFACTURER/MODEL	QTY
	HUNTER ICV-S W/ NIBCO T-113 BRONZE GATE VALVE 1-1/2"	55
	HUNTER ICV-S W/ NIBCO T-113 BRONZE GATE VALVE 1"	3
	HUNTER HQ-44RC 1"	6
	MATCO-NORCA 1ORT	6
C	HUNTER ACC-49D	1
XX	HUNTER ICD-100	15
XX	HUNTER ICD-200	13
XX	HUNTER ICD-400	2
XX	HUNTER ICD-600	2
R	HUNTER WR-CLIK	1
G	GROUND ROD LOCATION	8
POC "1"	POINT OF CONNECTION	1
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 1 1/2"	7,748 L.F.
	IRRIGATION LATERAL LINE: PVC CLASS 200 SDR 21 2"	3,265 L.F.
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 2"	214 L.F.
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 3"	1,590 L.F.
	IRRIGATION MAINLINE: PVC CLASS 200 SDR 21 4"	1,266 L.F.
	PIPE SLEEVE: PVC SCHEDULE 40 8"	19.2 L.F.

Valve Callout
Valve Number
Valve Flow
Valve Size

GRAPHIC SCALE
30 0 15 30 60 120
(IN FEET)
1 inch = 30 ft.

IRRIGATION NOTES

1. ALL WORK IS TO BE IN COMPLIANCE WITH ALL LOCAL, STATE AND FEDERAL CODES AND ORDINANCES.
2. ALL UNDERGROUND ELECTRICAL CONNECTIONS ARE TO BE MADE WITH 3-M WIRE CONNECTORS, DBY.
3. ALL REMOTE CONTROL VALVES ARE TO BE INSTALLED IN VALVE BOXES OF APPROPRIATE SIZE.
4. ALL CONTROL WIRING DOWNSTREAM OF THE CONTROLLER IS TO BE 14-2 AWG, UL APPROVED FOR DIRECT BURY.
5. ALL ROTORS AND SPRAY POP-UPS SHALL BE INSTALLED ON SWING JOINTS.
6. ALL QCV SHALL BE INSTALLED ON 3-ELBOW PVC SWING JOINTS.
7. SYSTEM DESIGN BASED UPON 200 GPM @ 85 PSI.
8. ANY CHANGES IN AVAILABILITY OF SUPPLY SHOULD BE NOTED AND MODIFICATIONS TO THE DESIGN SHOULD BE MADE.
9. CONTRACTOR TO VERIFY WATER PRESSURE AND AVAILABILITY PRIOR TO INSTALLATION.
10. THE LOCATION OF ALL IRRIGATION IS DIAGRAMMATIC AND SUBJECT TO FIELD VERIFICATION.
11. ANY IRRIGATION PIPING SHOWN OUTSIDE OF CURBS FOR CLARITY ONLY.
12. 120V. TO CONTROLLER AND COPPER STUB, BY OTHER THAN IRRIGATION CONTRACTOR.
13. A BOOSTER PUMP IS REQUIRED IF SYSTEM DOES NOT MEET THE DESIGN PRESSURE.
14. THE CONTRACTOR IS RESPONSIBLE FOR THEIR OWN MATERIAL TAKE OFF.

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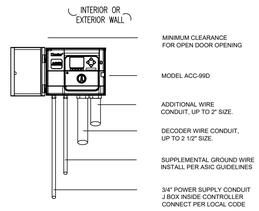
Elmira High School
Elmira, NY

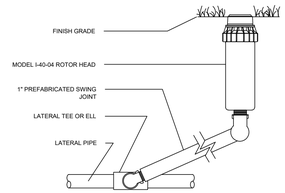
Designed For:	Date:
Irrigation Plan	03/29/2021
Revision	04/01/2021
Revision	04/14/2021
Revision	04/15/2021
Revision	09/30/2021

IRRIGATION PLAN
Designed By: Shawn Habecker

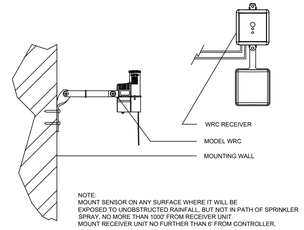
Drawing Scale: 1" = 30'-0"
Project Number: 248254
Sheet Number: IR-1



1 ACC-99D CONTROLLER WALL MOUNT

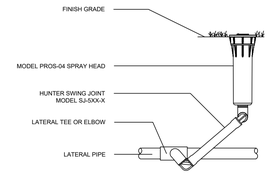


2 I-40-04 ROTOR HEAD

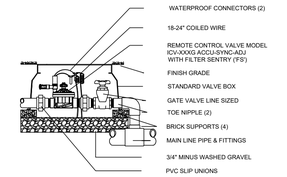


NOTE:
MOUNT SENSOR ON ANY SURFACE WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL, BUT NOT IN PATH OF SPRINKLER SPRAY. NO MORE THAN 100' FROM RECEIVER UNIT.
MOUNT RECEIVER UNIT NO FURTHER THAN 6' FROM CONTROLLER.

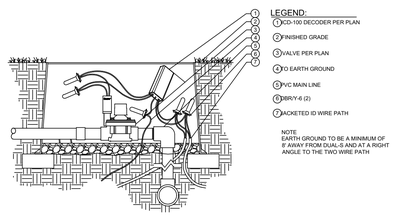
3 WIRELESS RAIN-CLIK



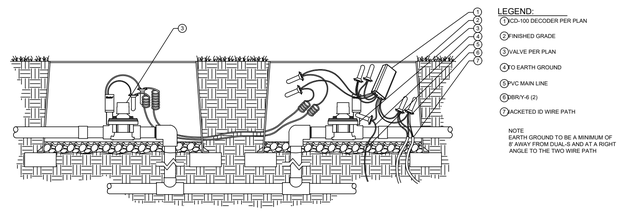
4 PROS-04 SPRAY HEAD WITH SJ-5XX-X



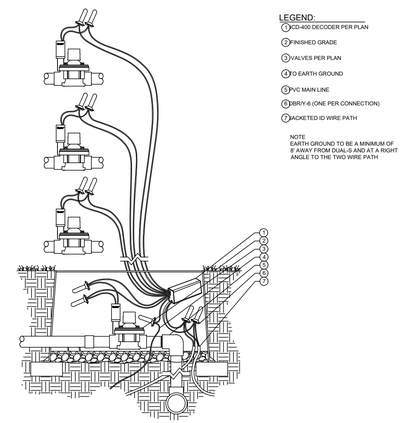
5 ICV GLOBE VALVE WITH ISOLATION VALVE



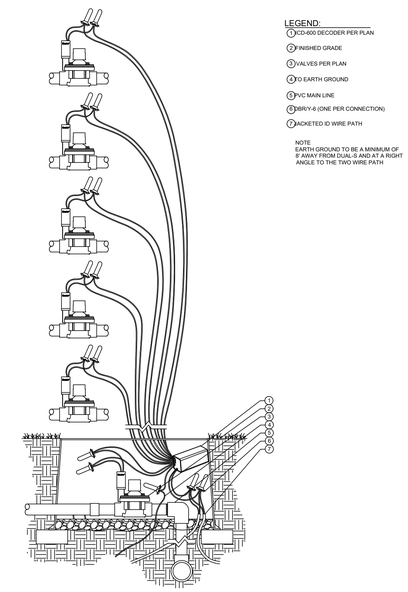
6 ICD-100 Decoder



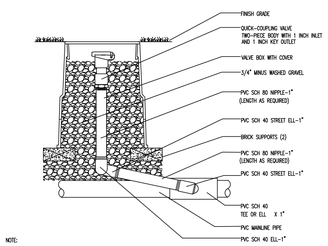
7 ICD-200 Decoder



8 ICD-400 Decoder

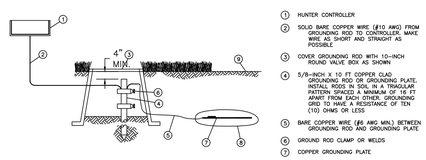


9 ICD-600 Decoder



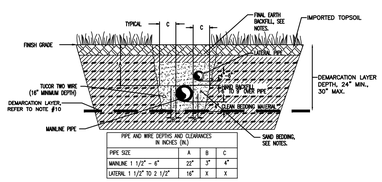
NOTE:
1. FURNISH FITTINGS AND PIPING NOMINALLY SIZED IDENTICAL TO NOMINAL QUICK COUPLING VALVE INLET SIZE.

10 HQ44 Quick Coupling Valve



1. HUNTER CONTROLLER
2. SOLID BARE COPPER WIRE (#10 AWG) FROM GROUNDING ROD TO CONTROLLER. MAKE WIRE AS SHORT AND STRAIGHT AS POSSIBLE
3. COVER GROUNDING ROD WITH 10-INCH ROUND VALVE BOX AS SHOWN
4. 5/8-INCH X 10 FT COPPER CLAD GROUNDING ROD OR GROUNDING PLATE. IF ROD, INSTALL IN A TRIANGULAR PATTERN SPACED A MINIMUM OF 10 FT APART FROM EACH OTHER. GROUNDING GRID TO HAVE A RESISTANCE OF TEN (10) OHMS OR LESS
5. BARE COPPER WIRE (#6 AWG MIN.) BETWEEN GROUNDING ROD AND GROUNDING PLATE
6. GROUND ROD CLAMP OR WELDS
7. COPPER GROUNDING PLATE
8. GROUND ENHANCEMENT MATERIAL (IF REQUIRED)
9. FINISH GRADE

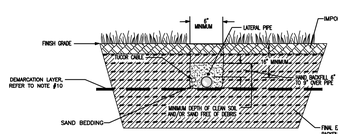
11 Controller Gronding Grid Installation



PIPE AND WIRE DEPTHS AND CLEARANCES IN INCHES (IN.)			
PIPE SIZE	A	B	C
MAINLINE 1 1/2" – 6"	22"	3"	4"
LATERAL 1 1/2" TO 2 1/2"	16"	X	X

1. SOILS SHALL BE COMPACTED TO A DENSITY OF 90% OF ORIGINAL DRY MATTER.
2. THRUST BLOCKS SHALL NEVER BE PLACED OVER WIRES. CARE SHALL BE TAKEN TO ROUTE WIRES AROUND ALL THRUST BLOCKS.
3. WIRE SHALL BE "SNAKED" IN THE TRENCH WITH A MINIMUM OF 1% SLACK
4. THERE SHALL BE A MINIMUM OF 36" (IN) EXPANSION LOOP AT EACH CHANGE OF DIRECTION FITTING 45° OR MORE.
5. ALL WIRE BUNDLES SHALL BE TAPED TOGETHER AT INTERVALS OF EVERY 10' (FT).
6. ALL TUCOR WIRES SHALL BE PLACED A MINIMUM OF 18" (IN) BELOW GRADE EXCEPT, WHEN CROSSING ROADWAYS OR PARKING LOTS WHERE DEPTH SHALL BE A MINIMUM OF 24" (IN) BELOW GRADE.
7. ALL POWER CABLES SHALL BE PLACED AT A MINIMUM OF 24" BELOW GRADE.

14 MAINLINE/LATERAL PIPE AND WIRE TRENCH
(IN IMPORTED FILL SOILS)



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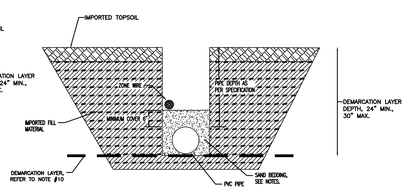
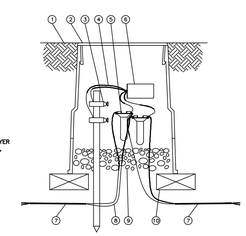
5. ALL WIRE BUNDLES SHALL BE TAPED TOGETHER AT INTERVALS OF EVERY 10' (FEET).

15 LATERAL PIPE AND WIRE - CUT TRENCH
(IN IMPORTED FILL SOILS)



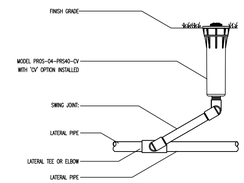
16 TRENCH DETAIL
(IN IMPORTED FILL SOILS)



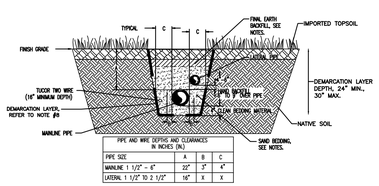
1. FINISH GRADE OR TOP OF MULCH
2. 10-INCH VALVE BOX WITH COVER: RAIN BIRD VB-10RND
3. GROUNDING ROD: 10 OHMS OR LESS
4. GREEN/YELLOW WIRE FROM LSP-1TURFTURF TO GROUNDING ROD BRASS CLAMPS (1 OF 2)
5. 3M SERIES WIRE CONNECTOR:
6. GROUND FROM DECODER
7. TWO-WIRE CABLE TO NEXT DEVICE
8. COMMUNICATION WIRE TO NEXT DEVICE (FIELD DECODER, SENSOR DECODER OR CONTROLLER
9. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
10. BRICK (1 OF 2)

NOTES:
1. GROUND ROD SHOULD BE INSTALLED EVERY 500-FEET OR FOR EVERY EIGHT DECODERS ON TWO-WIRE PATH.
2. GROUND ROD TO BE INSTALLED AT END OF WIRE RUN THAT TERMINATES IN THE FIELD (STAR CONFIGURATION).

12 Decoder Ground Rod Installation



13 Pros-04 -PRS40-CV MP Rotator Sprinkler



PIPE AND WIRE DEPTHS AND CLEARANCES IN INCHES (IN.)			
PIPE SIZE	A	B	C
MAINLINE 1 1/2" – 6"	22"	3"	4"
LATERAL 1 1/2" TO 2 1/2"	16"	X	X

1. SOILS SHALL BE COMPACTED TO A DENSITY OF 90% OF ORIGINAL DRY MATTER.
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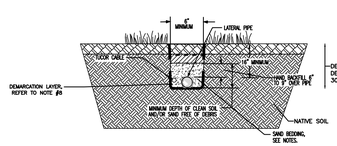
3. WIRE SHALL BE "SNAKED" IN THE TRENCH WITH A MINIMUM OF 1% SLACK
4. THERE SHALL BE A MINIMUM OF 36" (IN) EXPANSION LOOP AT EACH CHANGE OF DIRECTION FITTING 45° OR MORE.
5. ALL WIRE BUNDLES SHALL BE TAPED TOGETHER AT INTERVALS OF EVERY 10' (FT).
6. ALL TUCOR WIRES SHALL BE PLACED A MINIMUM OF 18" (IN) BELOW GRADE EXCEPT, WHEN CROSSING ROADWAYS OR PARKING LOTS WHERE DEPTH SHALL BE A MINIMUM OF 24" (IN) BELOW GRADE.
7. ALL POWER CABLES SHALL BE PLACED AT A MINIMUM OF 24" BELOW GRADE.

17 MAINLINE/LATERAL PIPE AND WIRE TRENCH
(IN NATIVE SOILS)



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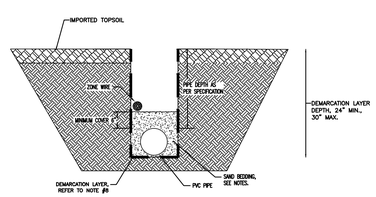
5. ALL WIRE BUNDLES SHALL BE TAPED TOGETHER AT INTERVALS OF EVERY 10' (FEET).

18 LATERAL PIPE AND WIRE - CUT TRENCH
(IN NATIVE SOILS)



19 TRENCH DETAIL
(IN NATIVE SOILS)

IRRIGATION SYSTEM BACKFILL & BEDDING MATERIAL:

1. THE REMEDIATION CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATION AND BACKFILL WORK ASSOCIATED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM. THE RESTORATION CONTRACTOR SHALL COORDINATE SCHEDULE OF IRRIGATION INSTALLATION WORK WITH THE REMEDIATION CONTRACTOR PRIOR TO THE START OF WORK.
2. ALL BACKFILL AND BEDDING MATERIAL USED FOR PIPE, STRUCTURE BEDDING, BACKFILL AND TOPSOIL SHALL BE IMPORTED AND APPROVED MATERIAL PROVIDED BY THE UNISYS REMEDIATION CONTRACTOR.
3. RESTORATION CONTRACTOR SHALL COORDINATE WITH THE REMEDIATION CONTRACTOR ON THE ANTICIPATED QUANTITY OF STONE BEDDING, SAND BEDDING, EARTH BACKFILL AND TOPSOIL PRIOR TO THE START OF WORK.
4. STONE BEDDING SHALL BE 3/4" MINUS WASHED CRUSHED STONE AS IMPORTED BY REMEDIATION CONTRACTOR.
5. PIPE BEDDING SHALL BE BEDDING SAND AS IMPORTED BY REMEDIATION CONTRACTOR.
6. FINAL BACKFILL SHALL BE EARTH BACKFILL AS IMPORTED BY REMDIATION CONTRACTOR.
7. TOPSOIL SHALL BE TOPSOIL AS IMPORTED BY THE REMEDIATION CONTRACTOR.
8. WHERE IRRIGATION SYSTEM IS TO BE INSTALLED IN NATIVE SOILS, THE REMEDIATION CONTRACTOR TO INSTALL DEMARCATION LAYER IN TRENCH PRIOR TO IRRIGATION SYSTEM INSTALLATION OF IRRIGATION SYSTEM COMPONENTS. REFER TO THE RESTORATION PLANS FOR PORTIONS OF IRRIGATION SYSTEM INSTALLATION IN NATIVE SOILS.
9. MAXIMUM IRRIGATION TRENCH DEPTH SHALL NOT EXCEED THIRTY (30) INCHES.
10. DEMARCATION LAYER WITHIN IMPORTED FILL SOIL ZONE WILL BE PLACED BY THE REMEDIATION CONTRACTOR AT A DEPTH OF 30". DEMARCATION LAYER SHALL NOT BE DISTURBED DURING IRRIGATION SYSTEM INSTALLATION.
11. DEPTH OF DEMARCATION LAYER SHALL BE NO LESS THAN 24" BUT NO MORE THAN 30".

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Elmira High Scholl
Elmira, NY

Designed For:	Date:	
Irrigation Plan	03/29/2021	
Revision	04/01/2021	
Detail Page	04/14/2021	
Revision	04/16/2021	
Revision	09/30/2021	
Revision	11/18/2021	

IRRIGATION PLAN
Designed By: Shawn Habecker

Drawing Scale: NTS
Project Number: 248254
Sheet Number: IR-2

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FOUNDATION NOTES:

1. EXISTING FILL UNDER THE BUILDING FOOTPRINT SHOULD BE OVER EXCAVATED TO UNDISTURBED SOIL AND REPLACED WITH STRUCTURAL FILL.

2. ALL FOOTINGS ARE TO BE PLACED ON STRUCTURAL FILL OR ON UNDISTURBED NATURAL SOIL IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT GEOTECHNICAL ENGINEER.
   A. GENERAL: PROVIDE BORROW SOIL MATERIALS WHEN SUFFICIENT SATISFACTORY SOIL MATERIALS ARE NOT AVAILABLE FROM EXCAVATIONS
   B. SATISFACTORY SOILS: SOIL CLASSIFICATION GROUPS GW, GP, GM, SW, SP, AND SM ACCORDING TO ASTM D2487 OR A COMBINATION OF THESE GROUPS; FREE OF ROCK OR GRAVEL LARGER THAN 3 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION, AND OTHER DELETERIOUS MATTER.
   C. UNSATISFACTORY SOILS: SOIL CLASSIFICATION GROUPS GC, SC, CL, ML, OL, CH, MH, OH, AND PT ACCORDING TO ASTM D2487 OR A COMBINATION OF THESE GROUPS. UNSATISFACTORY SOILS ALSO INCLUDE SATISFACTORY SOILS NOT MAINTAINED WITHIN 2 PERCENT OF OPTIMUM MOISTURE CONTENT AT TIME OF COMPACTION.
   D. STRUCTURAL FILL: GRANULAR MATERIAL COMPLYING WITH N.Y.S.D.O.T. ITEM 203.07, SELECT GRANULAR FILL
   E. DRAINAGE COURSE: GRANULAR MATERIAL COMPLYING WITH N.Y.S.D.O.T. ITEM 203.07, SELECT GRANULAR FILL

3. THE CONTRACTOR SHALL ALLOW THE PROJECT GEOTECHNICAL ENGINEER (OR SPECIAL INSPECTOR) TO VERIFY SOIL CONDITIONS PRIOR TO PLACING FOUNDATIONS. FOUNDATIONS HAVE BEEN DESIGNED WITH AN ASSUMED ALLOWABLE SOIL BEARING PRESSURE OF 2,000 PSF.

4. FOUNDATIONS SHALL BE CENTERED UNDER SUPPORTED STRUCTURAL MEMBERS UNLESS NOTED OTHERWISE ON THE DRAWINGS.

5. EXTERIOR CONSTRUCTION SHALL BE CARRIED DOWN TO A MINIMUM DEPTH OF 4'-0" BELOW FINISHED EXTERIOR GRADE UNLESS OTHERWISE NOTED.

6. PROVIDE TEMPORARY OR PERMANENT SUPPORTS WHETHER SHORING, SHEETING, OR BRACING, SO THAT NO HORIZONTAL MOVEMENT AND/OR VERTICAL SETTLEMENT OCCUR TO EXISTING STRUCTURES, STREETS, SOIL, OR UTILITIES ADJACENT TO OR IN THE PROJECT SITE.

7. CARRY OUT A CONTINUOUS CONTROL OF SURFACE AND SUBSURFACE WATER DURING CONSTRUCTION SUCH THAT FOUNDATION WORK IS PERFORMED IN DRY AND ON UNDISTURBED SUBGRADE MATERIAL. THE CONTINUOUS WATER CONTROL SHALL BE CONDUCTED UNTIL THE PERMANENT DEWATERING SYSTEMS PER THE DRAWINGS IS IN-PLACE.

8. NO FOUNDATION CONCRETE SHALL BE PLACED IN WATER OR ON FROZEN SUBGRADE MATERIAL.

9. PROTECT IN-PLACE FOUNDATIONS AND SLABS FROM FROST PENETRATION UNTIL THE PROJECT IS COMPLETED.

10. PLACE BACKFILL AND FILL SOIL MATERIALS IN LAYERS NOT MORE THAN 8 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HEAVY COMPACTION EQUIPMENT AND NOT MORE THAN 4 INCHES IN LOOSE DEPTH FOR MATERIAL COMPACTED BY HAND-OPERATED TAMPERS.

11. PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE

12. COMPACT SOIL MATERIALS TO NOT LESS THAN THE FOLLOWING PERCENTAGES OF MAXIMUM DRY UNIT WEIGHT ACCORDING TO ASTM D698
    A. UNDER STRUCTURES, BUILDING SLABS, STEPS, AND PAVEMENTS, SCARIFY AND RECOMPACT TOP 12 INCHES (300 MM) OF EXISTING SUBGRADE AND EACH LAYER OF BACKFILL OR FILL SOIL MATERIAL AT 95 PERCENT

13. ON PREPARED SUBGRADE, PLACE AND COMPACT DRAINAGE COURSE UNDER CAST-IN-PLACE CONCRETE SLABS-ON-GRADE AS FOLLOWS:
    A. PLACE DRAINAGE COURSE 6 INCHES OR LESS IN COMPACTED THICKNESS IN A SINGLE LAYER
    B. PLACE DRAINAGE COURSE THAT EXCEEDS 6 INCHES IN COMPACTED THICKNESS IN LAYERS OF EQUAL THICKNESS, WITH NO COMPACTED LAYER MORE THAN 6 INCHES THICK OR LESS THAN 3 INCHES THICK

REINFORCED CONCRETE NOTES:

1. ALL REINFORCING BARS SHALL CONFORM TO ASTM A615 GRADE 60 UNLESS OTHERWISE NOTED.

2. REINFORCING BARS TO BE WELDED TO STRUCTURAL STEEL SHALL CONFORM TO ASTM A706/A706M.

3. ALL WELDED WIRE REINFORCEMENT (WWR) SHALL CONFORM TO ASTM A1064, WITH AN ULTIMATE TENSILE STRENGTH OF 70,000 PSI. FLAT SHEET STOCK ONLY.

4. PROVIDE CONCRETE COVER OVER REINFORCING IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 318.

5. ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE REQUIREMENTS OF ACI 315.

6. SUBMIT REINFORCING BAR SHOP DRAWINGS FOR REVIEW. ALLOW SUFFICIENT TIME FOR REVIEW AND APPROVAL BY THE ARCHITECT TO BE COMPLETED PRIOR TO BEGINNING FABRICATION.

7. ALL EXTERIOR VERTICAL EXPOSED CONCRETE SURFACES SHALL HAVE A RUBBED FINISH. ALL EXTERIOR HORIZONTAL EXPOSED CONCRETE SURFACES SHALL HAVE A BROOM FINISH.

STRUCTURAL MASONRY NOTES:

1. STRUCTURAL CONCRETE UNIT MASONRY SHALL HAVE A COMPRESSIVE STRENGTH OF f'_m = 2,000 PSI DETERMINED BY THE UNIT STRENGTH METHOD.

2. ALL CONCRETE MASONRY UNITS SHALL CONFORM TO THE ASTM C90, TYPE I, EXCEPT THAT THE MINIMUM COMPRESSIVE STRENGTH OF THE UNITS SHALL BE 2,000 PSI ON THE NET CROSS-SECTIONAL AREA OF THE BLOCK. ALL UNITS SHALL BE 2-CORE, NORMAL WEIGHT BLOCK.

3. ALL MORTAR FOR EXTERIOR OR LOAD BEARING CONCRETE MASONRY SHALL CONFORM TO ASTM C270, TYPE S, WITH A MINIMUM COMPRESSIVE STRENGTH OF 1,800 PSI AT 28 DAYS. ALL MORTAR FOR BELOW GRADE CONSTRUCTION SHALL CONFORM TO ASTM C270, TYPE M. ALL OTHER MORTAR SHALL CONFORM TO ASTM C270, TYPE N, WITH A MINIMUM COMPRESSIVE STRENGTH OF 750 PSI AT 28 DAYS.

4. GROUT FOR FILLING BLOCK CORES SHALL CONFORM TO ASTM C476, COARSE GROUT, WITH A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS. GROUT SHALL BE PLACED IN LIFTS NOT EXCEEDING 4 FEET IN HEIGHT. TEST GROUT COMPRESSIVE STRENGTH BY ASTM C1019.

5. ALL MASONRY WALLS SHALL BE ADEQUATELY BRACED PRIOR TO BACKFILLING.

6. ALL MASONRY WALLS SHALL BE REINFORCED WITH 9-GAUGE HORIZONTAL JOINT REINFORCING, PLACED IN EVERY SECOND BED JOINT, UNLESS OTHERWISE NOTED.

7. GROUT SOLID THE FIRST TWO BLOCK CELLS IMMEDIATELY ADJACENT TO ANY OPENINGS IN THE WALL OR THE END OF THE WALL.

8. GROUT SOLID FOR FIRST COURSE, THE LAST COURSE, AND THE COURSE BELOW AND ABOVE WINDOW, DOOR OR OTHER OPENINGS IN THE WALL.

9. ALL WALLS SHALL BE LAID IN RUNNING BOND.

10. SEE DRAWING S-101 FOR TYPICAL MASONRY DETAILS.

GENERAL STRUCTURAL NOTES:

1. CONTRACTOR IS RESPONSIBLE TO COORDINATE REQUIRED SPECIAL INSPECTIONS WITH THE PROJECT SPECIAL INSPECTOR. THE PROJECT STATEMENT OF SPECIAL INSPECTIONS IS LOCATED IN SECTION 014233 OF THE PROJECT MANUAL.

2. BUILDING IS DESIGNED TO MEET THE REQUIREMENTS OF THE 2020 BUILDING CODE OF NEW YORK STATE. DESIGN LOADS FOR THIS STRUCTURE ARE AS FOLLOWS:

DESIGN CRITERIA:

ROOF LOAD:

FRAMING..... 5 PSF
METAL ROOF PANEL..... 3 PSF
PLYWOOD SHEATHING..... 2 PSF
MISC..... 4 PSF
} 14 PSF (MINIMUM)

RAIN LOAD DESIGN DATA:

RAINFALL INTENSITY ..... 2.3 IN / HR

SNOW LOAD DESIGN DATA:

GROUND SNOW LOAD, P_g..... 40 PSF
FLAT ROOF SNOW LOAD, P_f ..... 30 PSF
SNOW EXPOSURE FACTOR, C_e..... 0.9
SNOW LOAD IMPORTANCE FACTOR, I..... 1.0
SNOW THERMAL FACTOR, C_t 1.2
SNOW SLOPE FACTOR, C_s..... 1.0

SNOW DRIFT PER ASCE 7-16 METHOD

EARTHQUAKE DESIGN DATA:

RISK CATEGORY..... I
SEISMIC IMPORTANCE FACTOR..... 1.0
MAPPED SPECTRAL RESPONSE ACCELERATIONS, S_s..... 0.110g
S_1..... 0.043g
SOIL SITE CLASS ..... D (ASSUMED)
SPECTRAL RESPONSE COEFFICIENT, S_{DS}..... 0.117g
SPECTRAL RESPONSE COEFFICIENT, S_{D1}..... 0.068g
SEISMIC DESIGN CATEGORY..... B

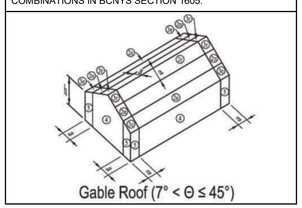
WIND LOAD DESIGN DATA:

ULTIMATE DESIGN WIND SPEED..... 105 MPH
RISK CATEGORY..... I
WIND EXPOSURE..... C
INTERNAL PRESSURE COEFFICIENT..... +/-0.18

COMPONENTS AND CLADDING PER ASCE 7-16 (GABLE ROOF)

TYPE	ZONE	NET WIND DESIGN PRESSURE (PSF) WIND AREA 10 SF	20 SF	50 SF	100 SF
ROOF	1	16.0	16.0	16.0	16.0
		-36.3	-36.3	-22.0	-16.0
	2e	16.0	16.0	16.0	16.0
		-36.3	-36.3	-22.0	-16.0
	2n	16.0	16.0	16.0	16.0
		-53.0	-45.7	-36.3	-29.1
	2r	16.0	16.0	16.0	16.0
		-53.0	-45.7	-36.3	-29.1
	3e	16.0	16.0	16.0	16.0
		-53.0	-45.7	-36.3	-29.1
	3r	16.0	16.0	16.0	16.0
		-62.9	-53.9	-42.0	-32.9
WALL	4	19.6	18.7	17.5	16.7
		-21.3	-20.4	-19.2	-18.4
	5	19.6	18.7	17.5	16.7
		-26.2	-24.5	-22.1	-20.4
ROOF OH	1	-50.3	-43.5	-38.3	-50.3
	2e	-61.3	-49.3	-40.2	-70.5
	2n	-61.3	-49.3	-40.2	-70.5
	2r	-61.3	-49.3	-40.2	-82.6
	3e	-71.3	-56.4	-45.1	-96.6
	3r	-81.5	-61.5	-46.2	-36.3

NOTE: WIND LOADS INDICATED IN THIS TABLE ARE ULTIMATE VALUES AND SHALL BE USED WITH CORRESPONDING LOAD FACTORS PER LOAD COMBINATIONS IN BCNYS SECTION 1605.



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Drawn By: JNP
Checked By: MPW
Project Manager: SVR

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Revisions

Unisys Corporation North Athletic Field Site Restoration
SWBR Project Number 21013.00

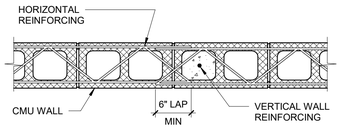
Unisys Corporation
3199 Pilot Knob Road
Eagan, MN 55121

S-001

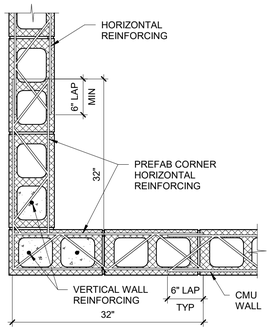
Structural General Notes

October 1st, 2021
Bid Set

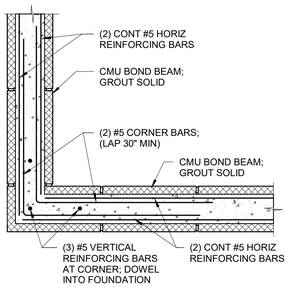
FILE PATH: BIM 360://21013.00 Unisys - Elmira CSD Baseball Field Repmnt/21013.00 Unisys - Elmira CSD Baseball Field Repmnt.rvt



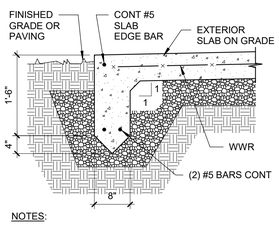
9 CMU PLAN DETAIL OF HORIZ REINFORCING
1" = 1'-0"



8 CMU PLAN DETAIL OF HORIZ REINFORCING
1" = 1'-0"



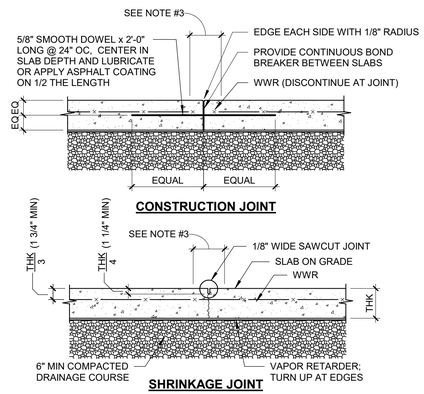
7 CMU BOND BEAM PLAN DETAIL AT CORNER
1" = 1'-0"



NOTES:
1. SEE SLAB PLAN FOR TOOLED CONTROL JOINT LOCATIONS.
2. SEE SLAB PLAN FOR SLAB THICKNESS & REINFORCING.

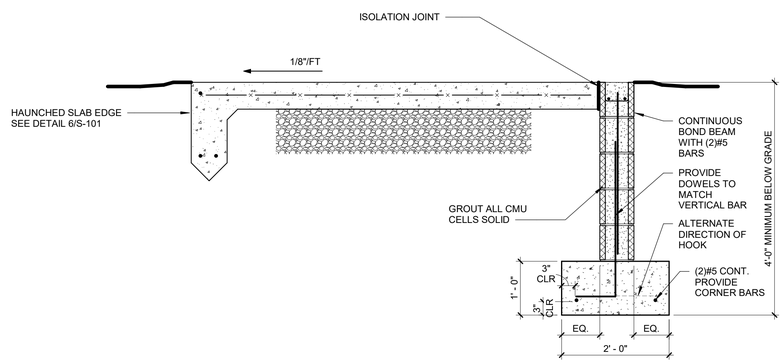
6 EXTERIOR SLAB EDGE HAUNCH DETAIL
3/4" = 1'-0"

5 NOT USED



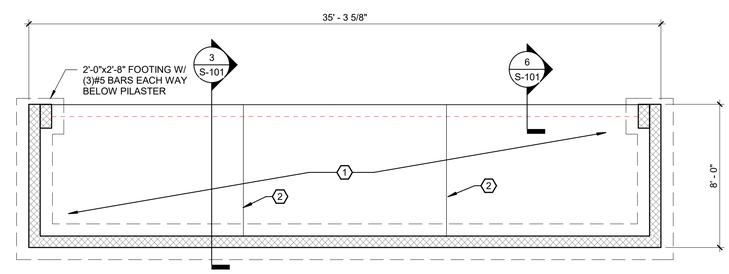
NOTES:
1. SEE SLAB PLAN FOR JOINT LOCATIONS.
2. SEE SLAB PLAN FOR SLAB THICKNESS & REINFORCING.
3. GRIND ANY RAISED SURFACE AREA ON EACH SIDE OF JOINT SMOOTH/LEVEL WITH SURROUNDING SLAB PRIOR TO FINISH APPLICATION.

4 SLAB ON GRADE CONTROL JOINT DETAILS
3/4" = 1'-0"



3 Baseball Dugout Section
3/4" = 1'-0"

2 NOT USED



1 Baseball Dugout Foundation & Slab on Grade Plan
1/4" = 1'-0"

TYPICAL PLAN NOTES:

1. SEE DRAWING S-001 FOR GENERAL NOTES AND DESIGN CRITERIA.
2. SEE TYPICAL MASONRY DETAILS ON DRAWING S-101.

SLAB-ON-GRADE PLAN KEY NOTES:

1. EXTERIOR 6" CONCRETE SLAB-ON-GRADE OVER 12" MIN COMPACTED DRAINAGE COURSE. REINFORCE WITH 6 x 6 - W2.9 x W2.9 WWR. PROVIDE A LIGHT BROOM FINISH PERPENDICULAR TO TRAVEL. PROVIDE SLAB EDGE HAUNCH PER DETAIL 6/S-101.
2. SLAB-ON-GRADE CONTROL JOINT LOCATION. SEE DETAIL 4/S-101.

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Drawn By:	JNP
Checked By:	MPW
Project Manager:	SVR

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Structural Plans & Details

October 1st, 2021
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