

MIRACLE FIELD

2023 OSLAD RE-DEVELOPMENT

September 20, 2023



LEMONT PARK DISTRICT
2023 MIRACLE FIELD OSLAD
RE-DEVELOPMENT
16028 127th Street
Lemont, IL 60439



1167 Hobson Mill Drive
Naperville, Illinois 60540
Telephone: (630) 606-0776
www.design-perspectives.net

In association with



650 E. Algonquin Road
Suite 250
Schaumburg, IL 60173
Telephone: (847) 756-4180
www.rtmec.com
Design Firm: 184006777-0002

GENERAL NOTES:

HIGHLY VISIBLE BARRIER FENCING SHALL BE INSTALLED AROUND EXISTING TREES ADJACENT TO PROPOSED IMPROVEMENTS AS DIRECTED BY THE PROJECT MANAGER.

CONSTRUCTION ACCESS TO AND FROM THE PROJECT SITE SHALL BE LIMITED TO ONE CONNECTION AS DIRECTED BY THE PROJECT MANAGER.

CONSTRUCTION TRAFFIC SHALL NOT USE THE RESIDENTIAL STREETS AS CUT-THROUGHS.

THE CONTRACTOR SHALL FIELD CHECK AND VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO THE START OF CONSTRUCTION.

EXISTING UNDERGROUND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL DETERMINE EXACT LOCATION AND ELEVATION FROM THE OWNERS OF THE UTILITIES. ALL UTILITY OWNERS SHALL BE NOTIFIED BY THE CONTRACTOR 72 HOURS PRIOR TO EXCAVATION.

ANY DAMAGE CAUSED BY THE CONTRACTOR TO ADJACENT PROPERTY AND STRUCTURES SHALL BE REPAIRED OR REPLACED AT HIS EXPENSE AND TO THE SATISFACTION OF THE OWNER.

FOR THE PROTECTION OF THE AREA RESIDENTS, IT IS NECESSARY THAT EXCAVATIONS NOT REMAIN OPEN OVERNIGHT. EXCAVATIONS MADE DURING ANY WORK DAY MUST BE BACKFILLED TO SURFACE GRADE BY THE END OF THAT SAME DAY.

THE LOCATIONS AND EXTENTS OF AREAS USED FOR CONSTRUCTION STAGING PURPOSES AS EQUIPMENT PARKING AND MATERIAL STORAGE AREAS ARE SUBJECT TO APPROVAL OF THE PARK DISTRICT. IT IS DESIRED THAT MANHOLE, PIPE AND BACKFILL MATERIALS BE DELIVERED TO THE SITE NO EARLIER THAN THE THREE DAYS BEFORE THEY ARE SCHEDULED TO BE INSTALLED.

PROPOSED CONTOURS AND SPOT ELEVATIONS SHOWN INDICATE FINISH GRADE.

TOPSOIL SHALL NOT BE USED TO FILL PROPOSED PAVEMENT AREAS TO DESIGN SUBGRADE LEVELS.

PLACE AND GRADE AGGREGATE BASE MATERIAL IN PAVEMENT AREAS. SLOPE SUBGRADE AND AGGREGATE SURFACES TO THE INSTALLED DRAINAGE STRUCTURES. PROVIDE SURFACE SLOPES OF AT LEAST ONE PERCENT (1%) TO DRAINAGE STRUCTURES.

PLACE AND GRADE TOPSOIL TO REQUIRED ELEVATIONS AND CONTOURS TO CREATE SURFACE DRAINAGE AS INDICATED ON THE PLANS. CUT AND GRADE SUBSURFACE SOIL (CLAY) WHERE NECESSARY TO CREATE THE REQUIRED DRAINAGE PATTERNS AND SWALES. INSTALL SPECIFIED GRASS SEED WITHIN EACH WORK AREA, IMMEDIATELY AFTER COMPLETION OF SEWER INSTALLATION AND GRADING OPERATIONS WITHIN THAT AREA.

USE SPECIFIED GRANULAR MATERIAL TO BACKFILL ALL STRUCTURE EXCAVATIONS AND CONDUIT TRENCHES WITHIN AND IMMEDIATELY ADJACENT TO FUTURE PAVEMENT AREAS.

BOARD OF COMMISSIONERS:

BILL McADAM - PRESIDENT
MICHAEL SCARLATI - VICE-PRESIDENT
LELAND "LUCKY" WAGNER - COMMISSIONER
JULIE MESCHER - COMMISSIONER
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EXECUTIVE DIRECTOR:

LOUISE EGOFKSKE

DIRECTOR OF MAINTENANCE & PLANNING:

JASON KHUEN

INDEX OF DRAWINGS:

SHEET NO.	SHEET TITLE
G-000	COVER SHEET
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LS-101	LAYOUT PLAN
LS-102	LAYOUT PLAN ENLARGEMENT-BALLFIELD PLAZA
LS-500	CONSTRUCTION DETAILS
LS-501	BACKSTOP W/ NET FENCING & DRINKING FOUNTAIN CUT SHEETS
LS-502	PREFABRICATED DUGOUT CUT SHEETS
LS-503	PREFABRICATED DUGOUT CUT SHEETS 2
LS-504	PREFABRICATED DUGOUT (WITH STORAGE) CUT SHEETS
LS-505	PREFABRICATED DUGOUT (WITH STORAGE) CUT SHEETS 2
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LP-500	LANDSCAPE DETAILS
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CIVIL DRAWINGS:

C0.0	COVER SHEET (CIVIL)
C0.1	SPECIFICATIONS
C0.2	MWRD NOTES
C1.0	EXISTING CONDITIONS & DEMOLITION
C2.0	SITE GEOMETRIC PLAN
C3.0	SUBGRADE & UTILITY PLAN
C4.0	GRADING PLAN
C5.0	STORMWATER POLLUTION PREVENTION PLAN
C5.1	SWPPP NOTES
C6.0	SWPPP DETAILS
C6.1	DETAILS
C6.2	DETAILS
C7.0	MWRD DRAINAGE EXHIBIT
C7.1	MWRD MAINTENANCE PLAN

PROJECT LOCATION:



MIRACLE FIELD

J.U.L.I.E.

JOINT
UTILITY
LOCATION
INFORMATION FOR
EXCAVATION
CALL 811



Know what's below.
Call before you dig.

CALL J.U.L.I.E. AT LEAST TWO
DAYS BEFORE BEGINNING
EXCAVATION ACTIVITIES
1-800-892-0123 OR 811.

MANUFACTURER REPRESENTATIVES & SUPPLIERS LIST:

THE FOLLOWING PARTIAL LIST IS FOR YOUR CONVENIENCE IN PREPARING BIDS:

BEACON ATHLETICS:
608-824-1566
Contact: Kevin Diedrich
KevinD@beaconathletics.com
WWW.BEACONATHLETICS.COM

JW INDUSTRIES:
1-920-865-7307
WWW.JWINDUSTRIES.COM

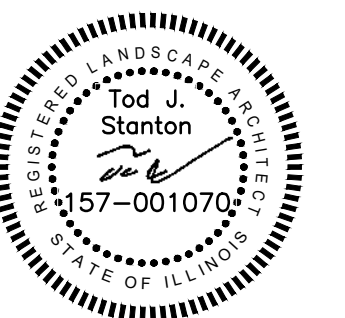
KEEPER GOALS:
1-800-594-5126
WWW.KEEPERGOALS.COM

BARCO PRODUCTS:
1-800-338-2697
WWW.BRACOPRODUCTS.COM

MOST DEPENDABLE FOUNTAINS:
1-901-867-0039
WWW.MOSTDEPENDABLE.COM

REV.	COMMENT	DATE

SEAL:



DATE: 9/20/2023
JOB NO.: 23-717B
DRAWN BY: JF
CHECKED BY: TS

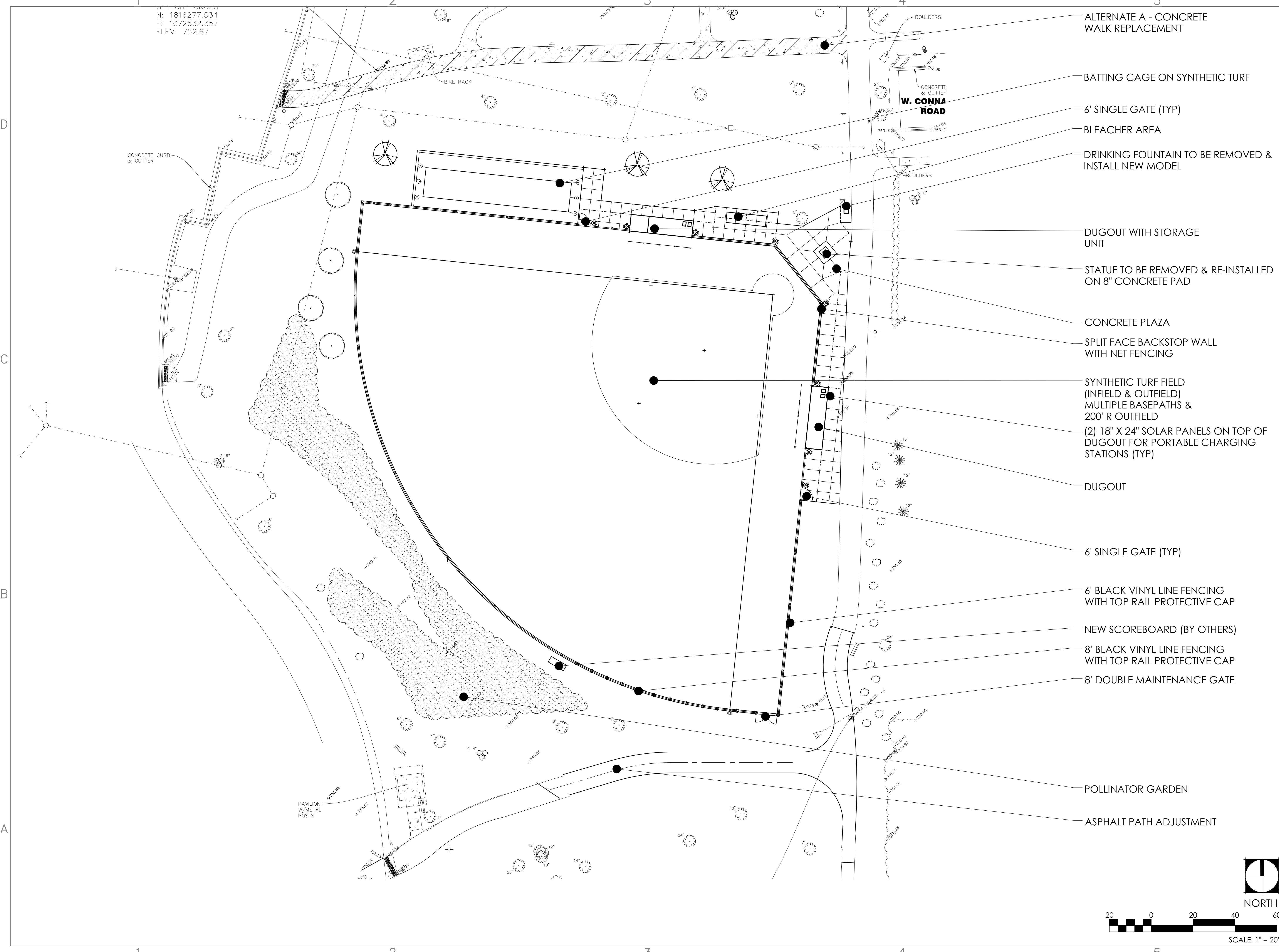
DRAWING TITLE:
COVER SHEET

SHEET NO.:
G-000

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SET CUT CROSS
 N: 1816277.534
 E: 1072532.357
 ELEV: 752.87



- ALTERNATE A - CONCRETE WALK REPLACEMENT
- BATTING CAGE ON SYNTHETIC TURF
- 6' SINGLE GATE (TYP)
- BLEACHER AREA
- DRINKING FOUNTAIN TO BE REMOVED & INSTALL NEW MODEL
- DUGOUT WITH STORAGE UNIT
- STATUE TO BE REMOVED & RE-INSTALLED ON 8" CONCRETE PAD
- CONCRETE PLAZA
- SPLIT FACE BACKSTOP WALL WITH NET FENCING
- SYNTHETIC TURF FIELD (INFIELD & OUTFIELD) MULTIPLE BASEPATHS & 200' R OUTFIELD
- (2) 18" X 24" SOLAR PANELS ON TOP OF DUGOUT FOR PORTABLE CHARGING STATIONS (TYP)
- DUGOUT
- 6' SINGLE GATE (TYP)
- 6' BLACK VINYL LINE FENCING WITH TOP RAIL PROTECTIVE CAP
- NEW SCOREBOARD (BY OTHERS)
- 8' BLACK VINYL LINE FENCING WITH TOP RAIL PROTECTIVE CAP
- 8' DOUBLE MAINTENANCE GATE
- POLLINATOR GARDEN
- ASPHALT PATH ADJUSTMENT



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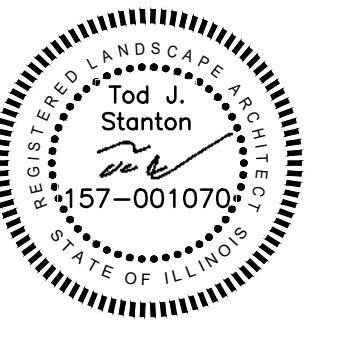
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SEAL:

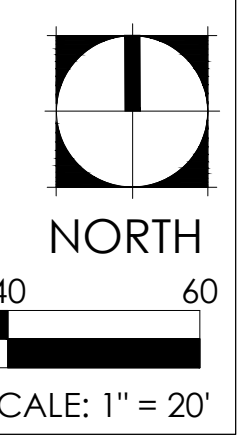


DATE: 9/20/2023
 JOB NO.: 21-8112
 DRAWN BY: JF
 CHECKED BY: TS

DRAWING TITLE:
 SITE PLAN

SHEET NO.:
 LS-100

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100 SITE FURNISHING SCHEDULE

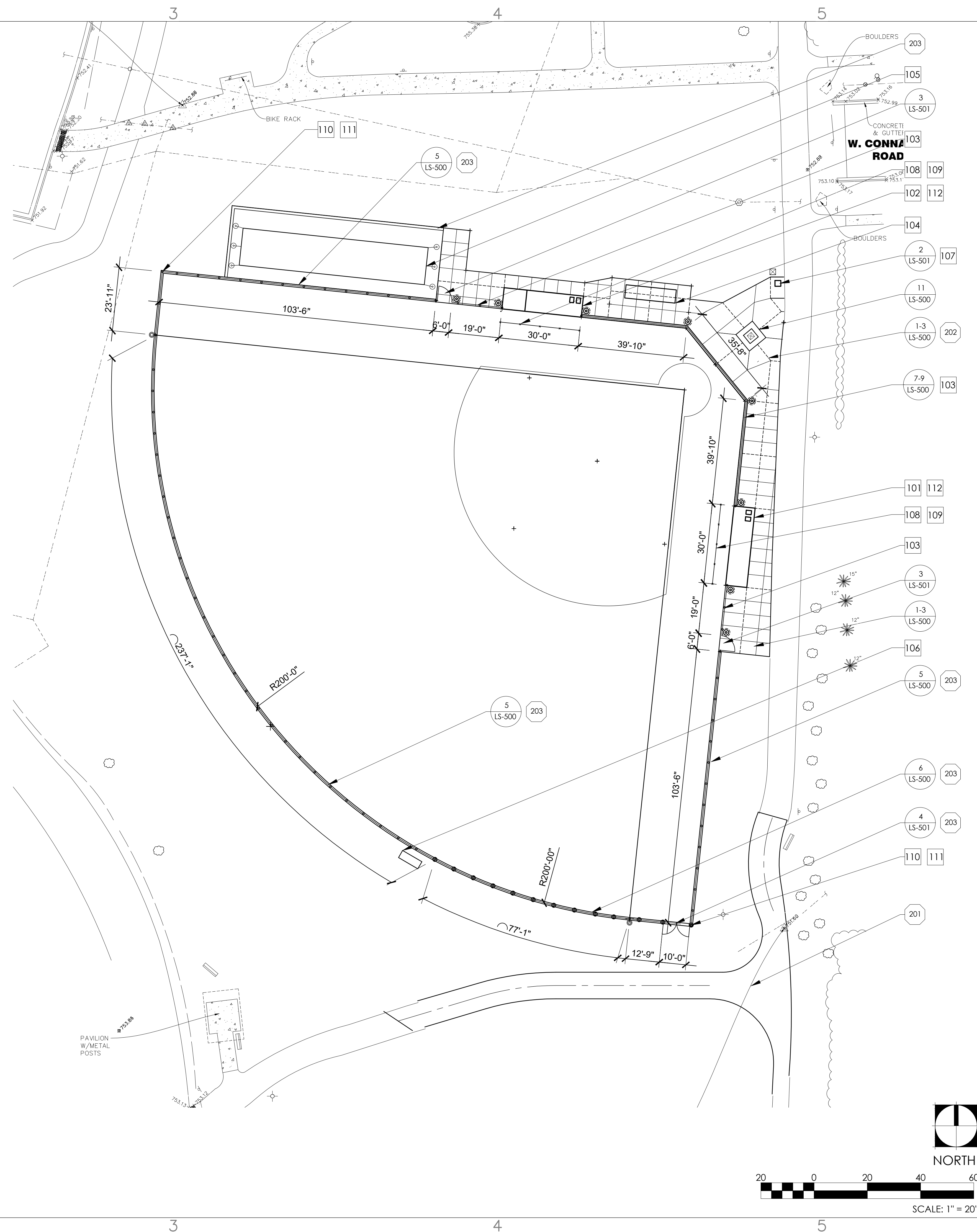
SYMBOL	DESCRIPTION
101	30' X 8' EASI-SET DUGOUT BY NCI PRECAST SET ON CONCRETE FOUNDATION DUGOUT PROVIDED & INSTALLED BY PARK DISTRICT, SEE LS-502-503 CONCRETE FOUNDATION & SOLAR PANELS PROVIDED & INSTALLED BY CONTRACTOR, SEE DETAIL 10, LS-500
102	30' X 8' EASI-SET DUGOUT WITH STORAGE BY NCI PRECAST SET ON CONCRETE FOUNDATION DUGOUT PROVIDED & INSTALLED BY PARK DISTRICT, SEE LS-504-505 CONCRETE FOUNDATION & SOLAR PANELS PROVIDED & INSTALLED BY CONTRACTOR, SEE DETAIL 10, LS-500
103	BACKSTOP WITH NET FENCING (MODEL #BSP-L) BY BEACON ATHLETICS SEE DETAIL 1, LS-501
104	BLEACHER SEATING SYSTEM (MODEL #3R19A-3) BY JW INDUSTRIES SEE LS-506
105	TF PRO HOIST 70-1 (SGL) BATTING CAGE (MODEL #TFP70-1HST) BY BEACON ATHLETICS; POWDER COAT BLACK; SEE LS-507
106	SCOREBOARD BY OWNER
107	DRINKING FOUNTAIN (MODEL #440 SM) BY MOST DEPENDABLE FOUNTAINS; SEE DETAIL 6, LS-500 FOR REFERENCE DRINKING FOUNTAIN IS EXISTING TO BE REMOVED & RE-INSTALLED BY CONTRACTOR
108	DUGOUT RAIL PADDING KIT (MODEL #BC-RAILPAD-KIT-BL) BY KEEPER GOALS; COLOR = BLACK
109	DUGOUT NET KIT (MODEL #120-100-100) BY BEACON ATHLETICS 6' HT.
110	STANDARD FOUL POLES BY BEACON ATHLETICS 12' HT.
111	FOUL POLE GROUND SLEEVES BY BEACON ATHLETICS SIZED FOR 12' HT. POLES
112	8' PLAYER BENCH INSIDE DUGOUT BY BARCO (SURFACE MOUNT)

200 PAVING FINISH SCHEDULE

SYMBOL	DESCRIPTION	COLOR	FINISH	THICKNESS	REMARKS
201	CONCRETE PAVING	STANDARD	CALLY FINISH	5"	SEE DETAIL #1-3 SHEET LS-500
202	CONCRETE PAVING	STANDARD	-	-	SEE CIVIL DRAWINGS
203	12' W CONCRETE CURB	STANDARD	-	-	SEE CIVIL DRAWINGS

CONSTRUCTION NOTES

- CONTRACTOR SHALL BE RESPONSIBLE TO CONSULT ALL APPROPRIATE AGENCIES FOR LOCATIONS OF ALL UNDERGROUND UTILITIES, PIPES AND STRUCTURES. CONTRACTOR SHALL TAKE SOLE RESPONSIBILITY FOR ANY COST INCURRED DUE TO DAMAGE OF SAID UTILITIES.
- CONTRACTOR SHALL NOT WILLFULLY PROCEED WITH CONSTRUCTION AS DESIGNED & DETAILED WHEN IT IS OBVIOUS THAT UNKNOWN OBSTRUCTIONS, AREA DISCREPANCIES, AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING DESIGN. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION TO THE PROJECT MANAGER. THE CONTRACTOR WILL ASSUME FULL RESPONSIBILITY FOR ALL NECESSARY REVISIONS AND COSTS DUE TO FAILURE TO GIVE SUCH NOTIFICATIONS.
- CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY EXISTING MATERIALS THAT ARE DAMAGED DURING CONSTRUCTION.
- ALL WALLS, WALKS & PLANTING BED LINES SHALL HAVE SMOOTH, CONTINUOUS CURVES AS INDICATED ON PLANS.
- INSTALL ALL SITE FURNISHINGS PER MANUFACTURER'S INSTRUCTIONS AND/OR DRAWINGS.
- CONTRACTOR TO PROVIDE FULL DEPTH FELT EXPANSION JOINTS AS INDICATED ON LAYOUT PLANS AND WHERE PAVING ABUTS CURBING, BUILDINGS, COLUMNS, AND STRUCTURES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AS REQUIRED TO ACCOMPLISH ALL CONSTRUCTION OPERATIONS. ALL PIPING, CONDUIT, SLEEVES, ETC. SHALL BE SET IN PLACE AND MARKED PRIOR TO INSTALLATION OF CONSTRUCTION ITEMS.



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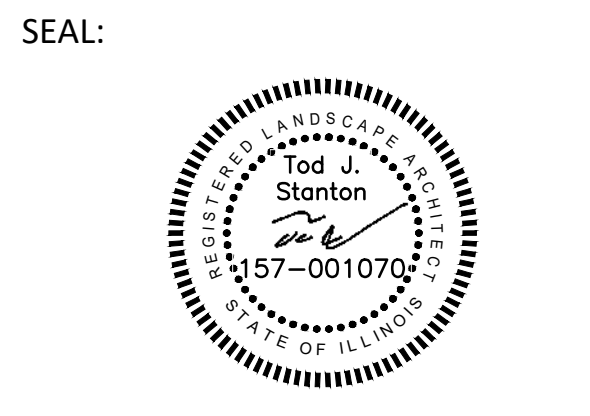
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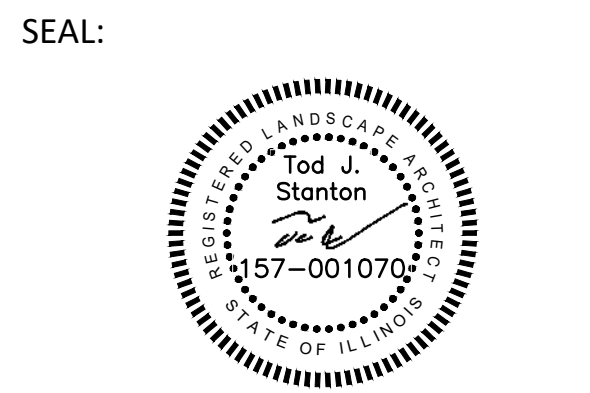


DATE: 9/20/2023
 JOB NO.: 21-8112
 DRAWN BY: JF
 CHECKED BY: TS

DRAWING TITLE:
 LAYOUT PLAN

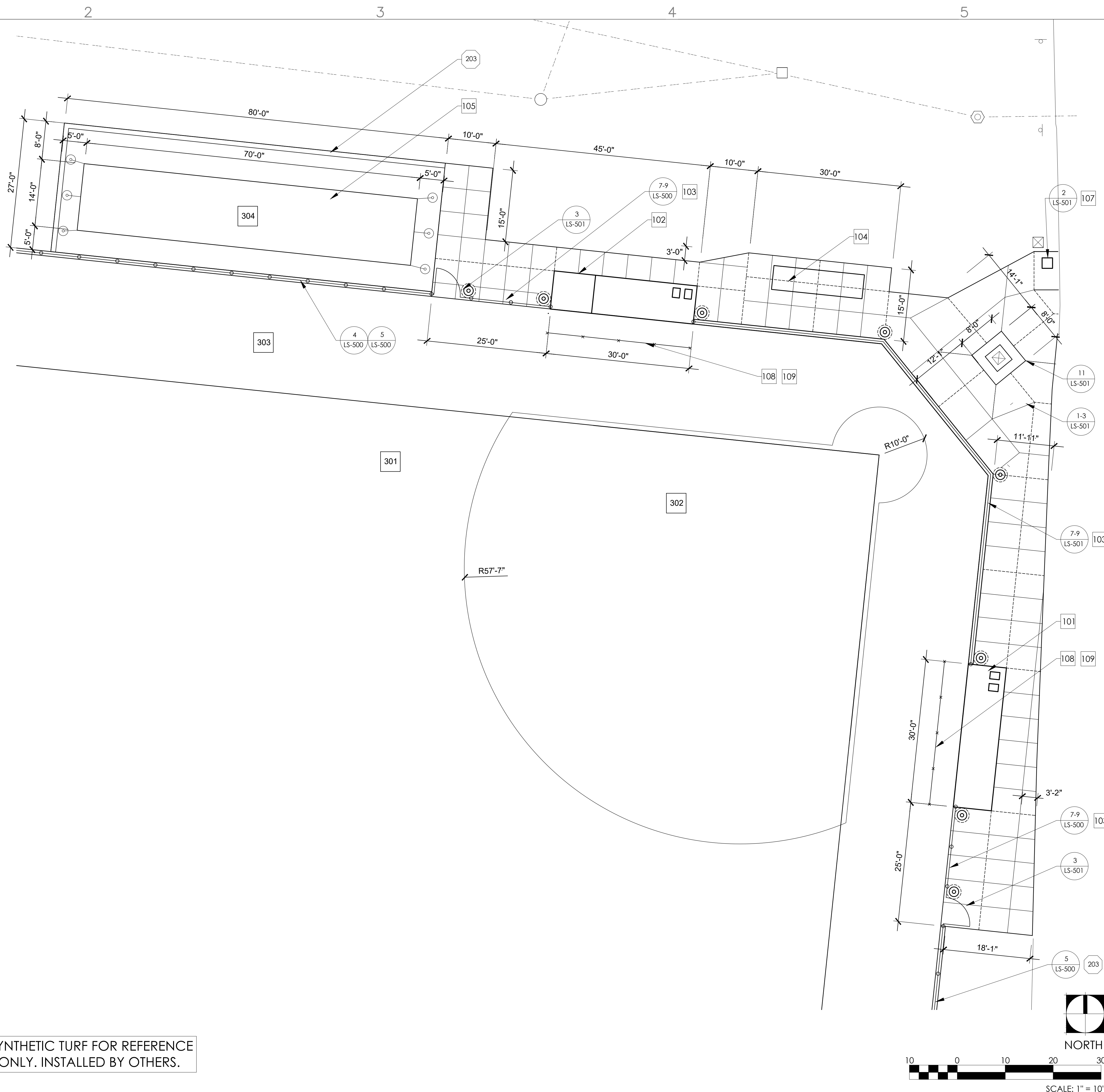
SHEET NO.:
 LS-101

REV.	COMMENT	DATE



DATE: 9/20/2023
 JOB NO.: 21-8112
 DRAWN BY: JF
 CHECKED BY: TS

DRAWING TITLE:
 LAYOUT PLAN
 ENLARGEMENT -
 BALLFIELD PLAZA
 SHEET NO.:



300 SITE FURNISHING KEY

FOR FULL SITE FURNISHING SCHEDULE, SEE SHEET LS-101

SYMBOL	DESCRIPTION
101	DUGOUT (WITH SOLAR PANELS) ON TOP OF CONCRETE FOUNDATION
102	DUGOUT (WITH STORAGE & SOLAR PANELS) ON TOP OF CONCRETE FOUNDATION
103	BACKSTOP WITH NET FENCING
104	BLEACHER SEATING
105	BATTING CAGE
106	SCOREBOARD
107	DRINKING FOUNTAIN
108	DUGOUT RAIL PADDING KIT
109	DUGOUT NET KIT
110	STANDARD FOUL POLES
111	FOUL POLE GROUND SLEEVES

400 SYNTHETIC TURF SCHEDULE

SYNTHETIC TURF SCHEDULE IS SHOWN FOR REFERENCE ONLY. SYNTHETIC TURF BY OTHERS. SYNTHETIC TURF SHALL BE SPORTSGRASS EDGE XPS BY FOREVER LAWN

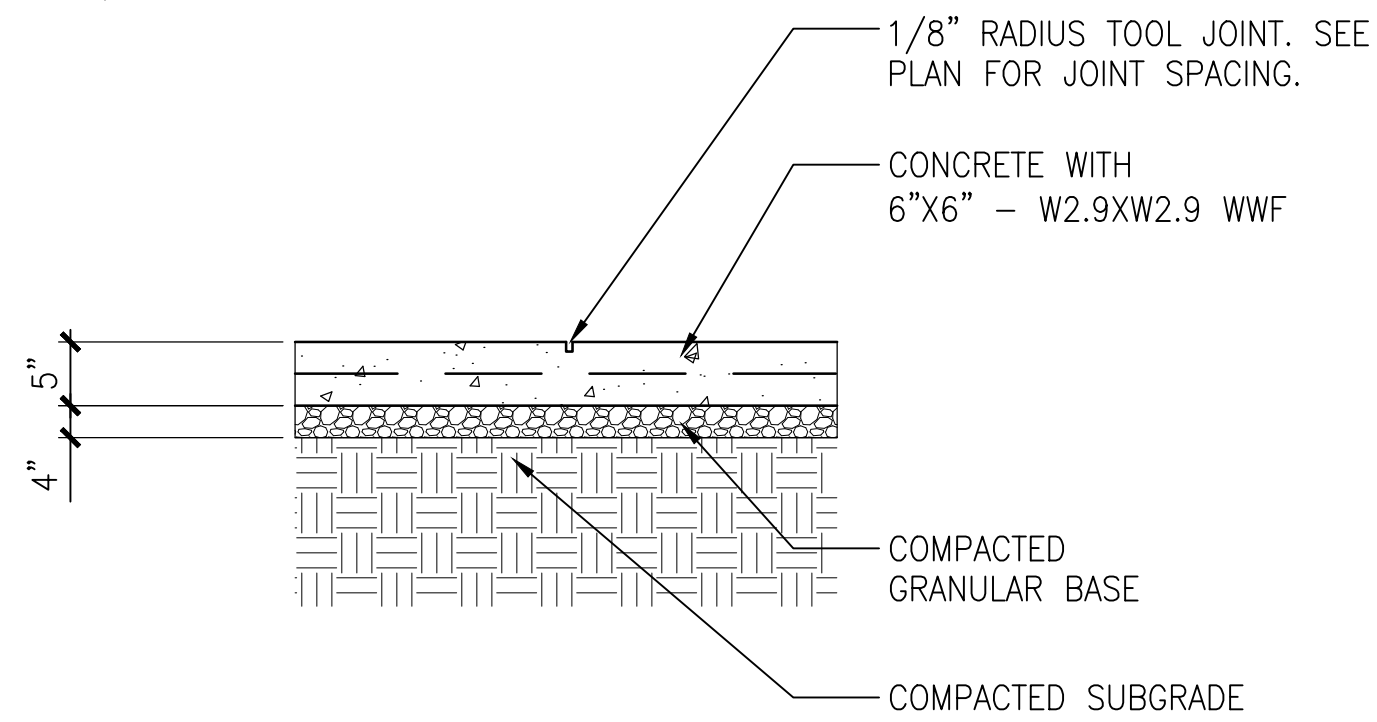
SYMBOL	DESCRIPTION
301	OUTFIELD COLOR = GREEN
302	INFIELD COLOR = BROWN
303	FOUL TERRITORY COLOR = GREEN
304	BATTING CAGE COLOR = GREEN



SYNTHETIC TURF FOR REFERENCE ONLY. INSTALLED BY OTHERS.

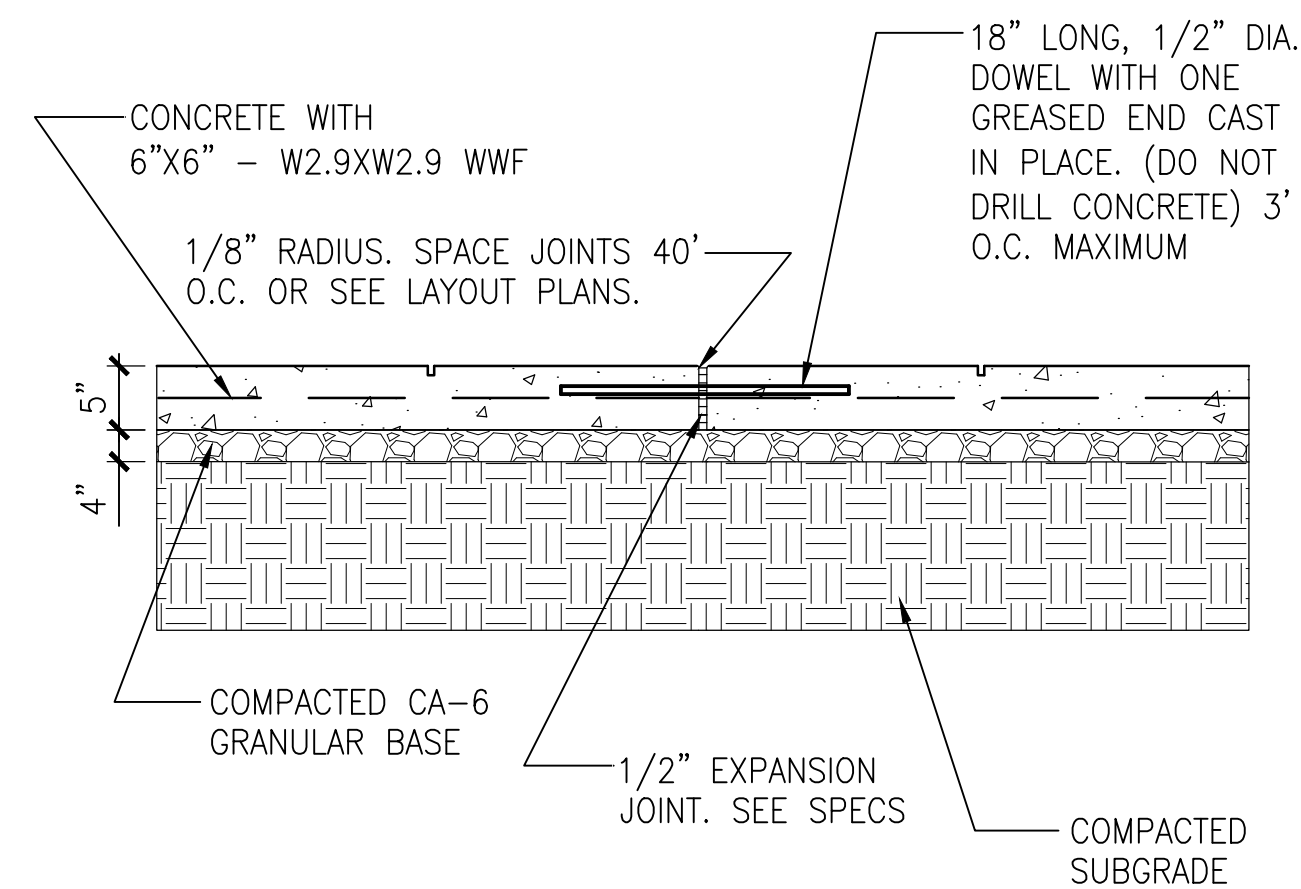
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NOTE: FOR ALL PAVEMENT AREAS SLOPES SHALL NOT EXCEED THE FOLLOWING: 2.0% CROSS SLOPE MAXIMUM; LONGITUDINAL SLOPE 5.0% MAXIMUM



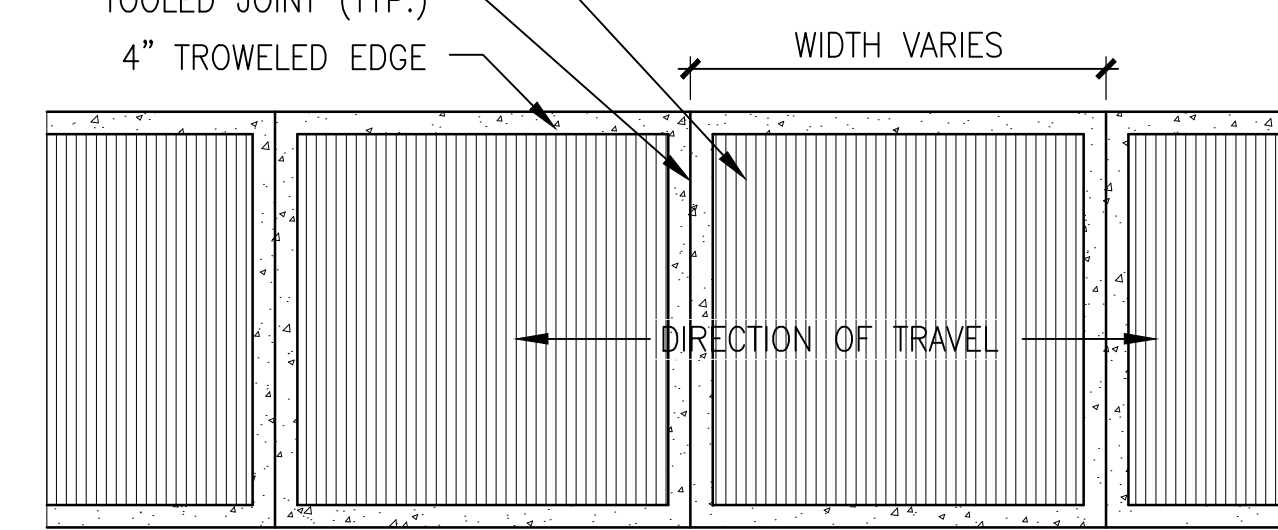
1 5" CONCRETE PAVING
SCALE: NTS CONC_5"_Paving

JOINTS TO BE LOCATED EVERY 35' O.C.



2 EXPANSION JOINT
SCALE: NTS

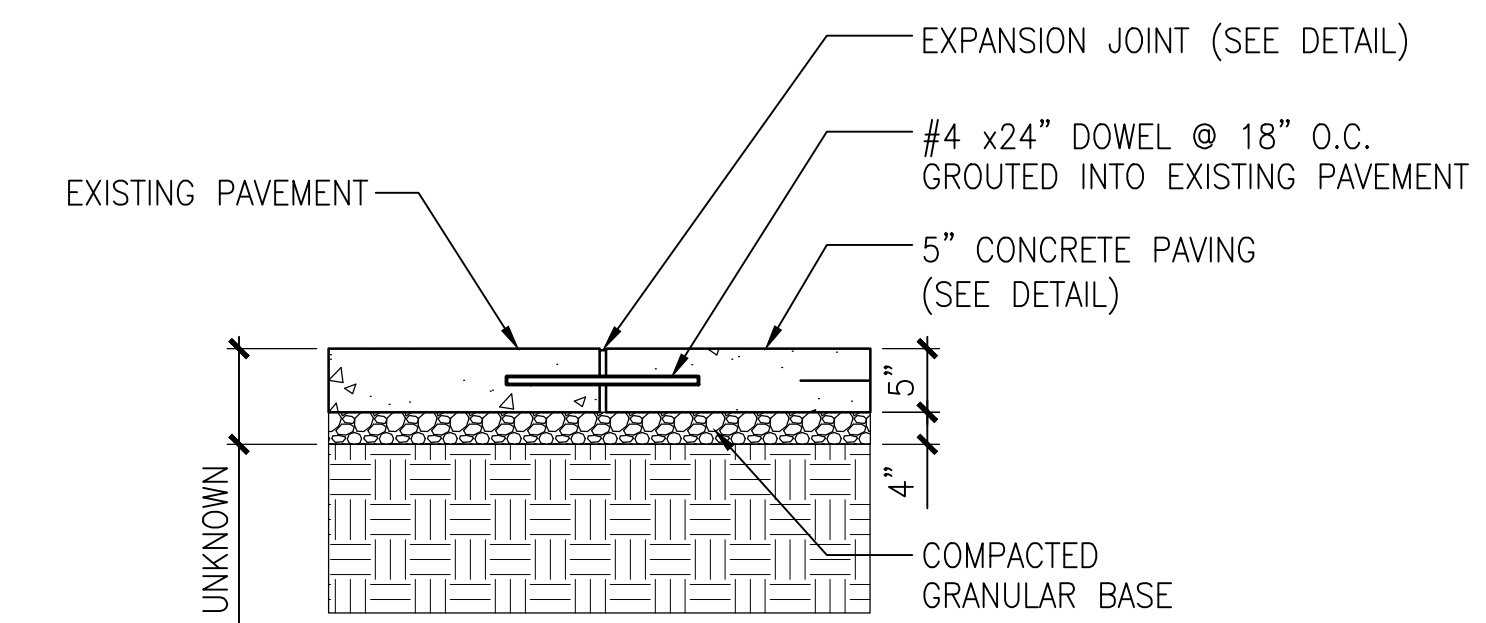
LIGHTLY BROOM SWEEP EVEN FINISH
TOOLED JOINT (TYP.)
4" TROWELED EDGE



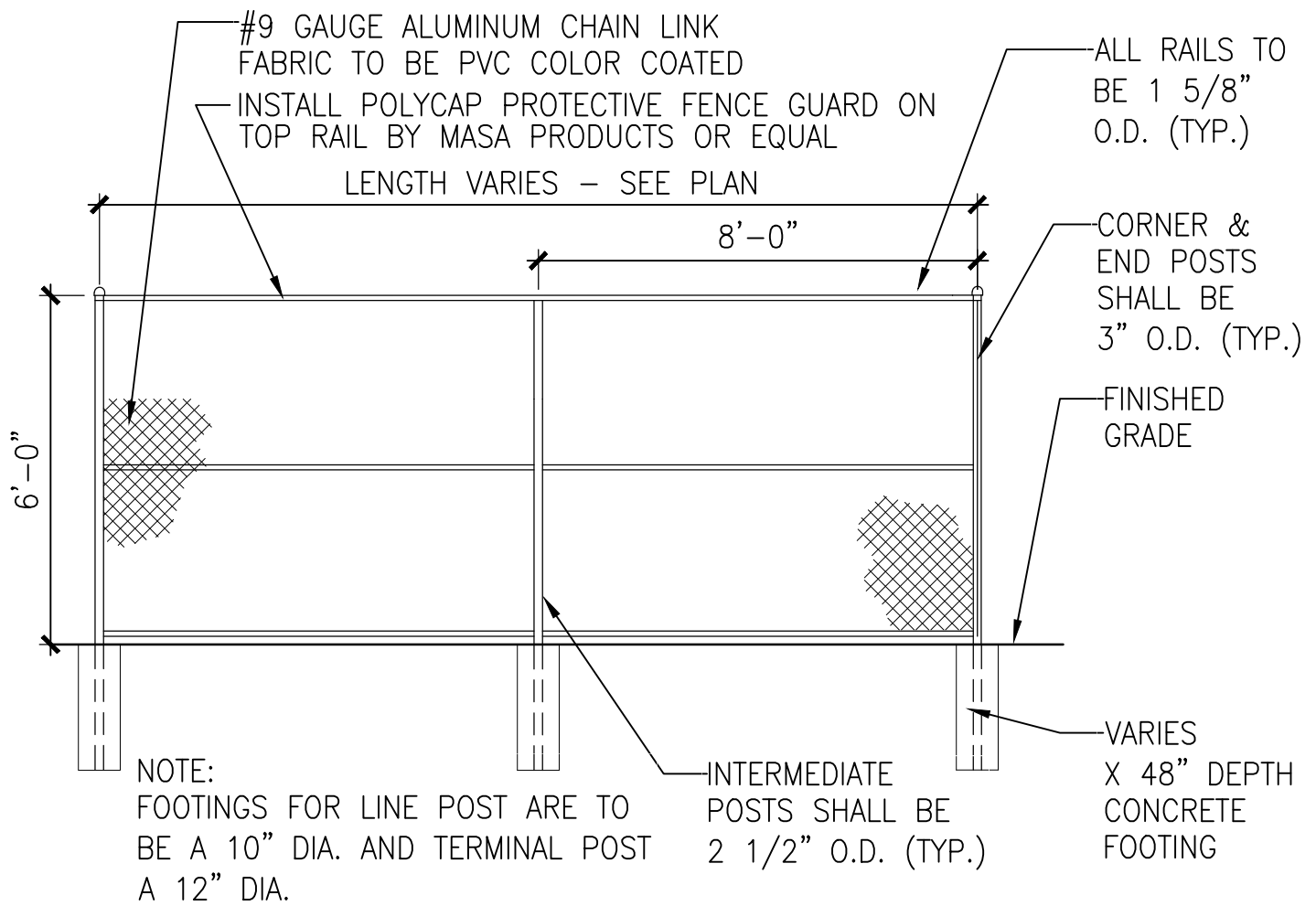
NOTES:
1. TYPICAL SCORING PATTERN DEPICTED ABOVE. REFER TO LAYOUT PLAN FOR SITE SPECIFIC SCORING PATTERN. SCORING PATTERN VARIES AT INTERSECTIONS.
2. ON CURVED WALKWAYS, JOINTS SHALL BE BASED ON THE SAME RADIUS AS THE WALKWAY.

3 CONCRETE FINISH
SCALE: NTS

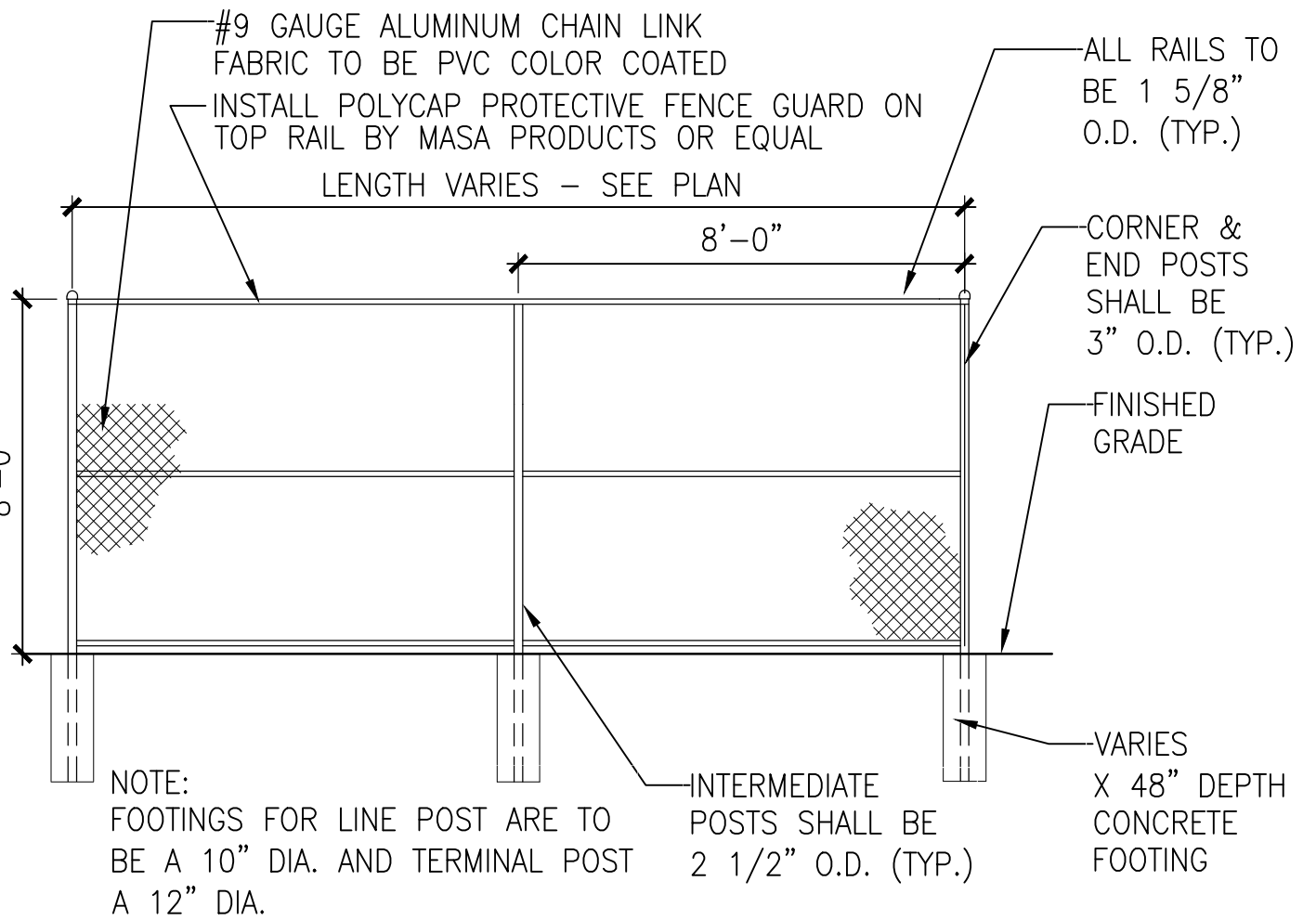
NOTE: FOR ALL PAVEMENT AREAS SLOPES SHALL NOT EXCEED THE FOLLOWING: 2.0% CROSS SLOPE MAXIMUM; LONGITUDINAL SLOPE 5.0% MAXIMUM



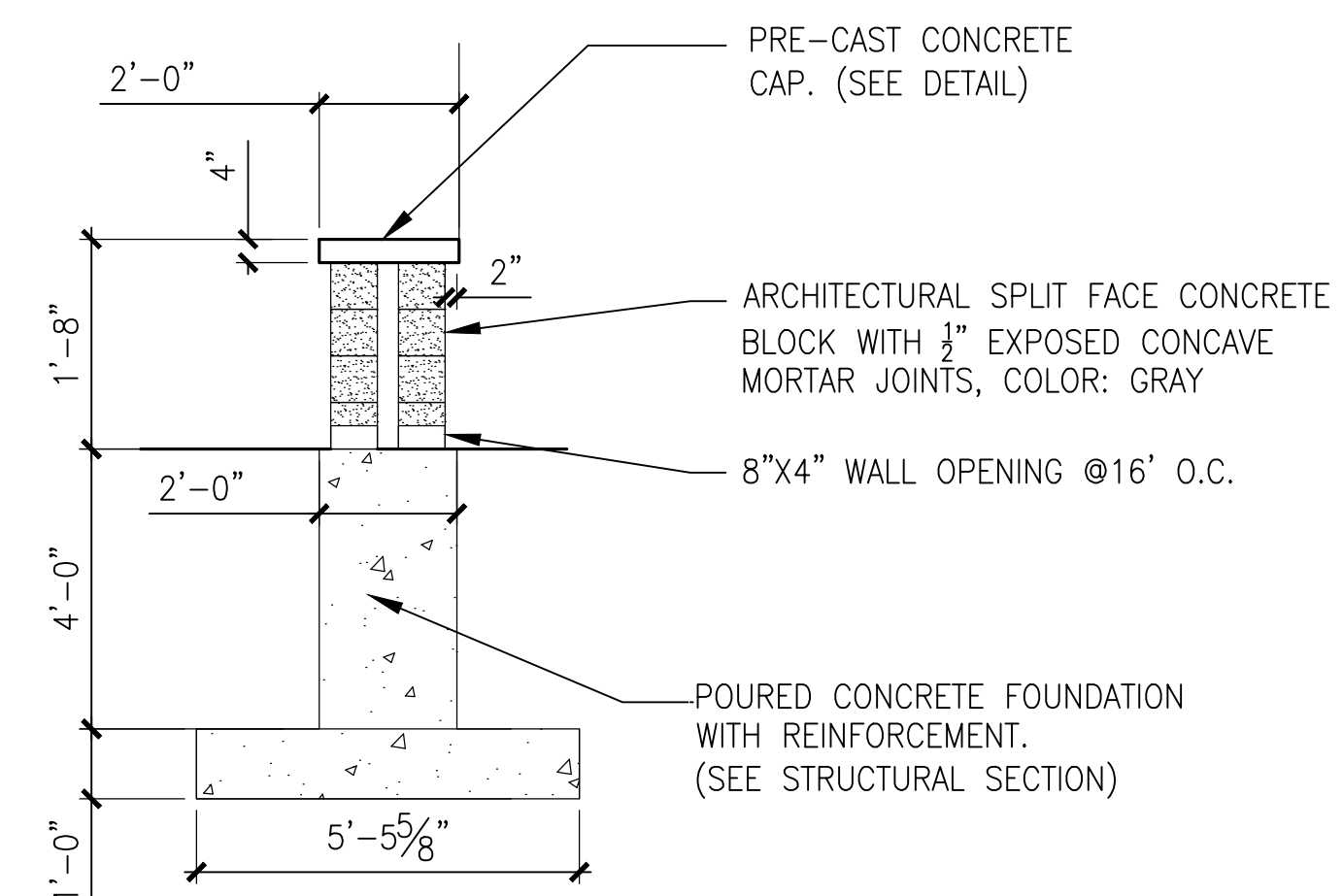
4 CONNECTION TO EXISTING PAVEMENT
SCALE: NTS



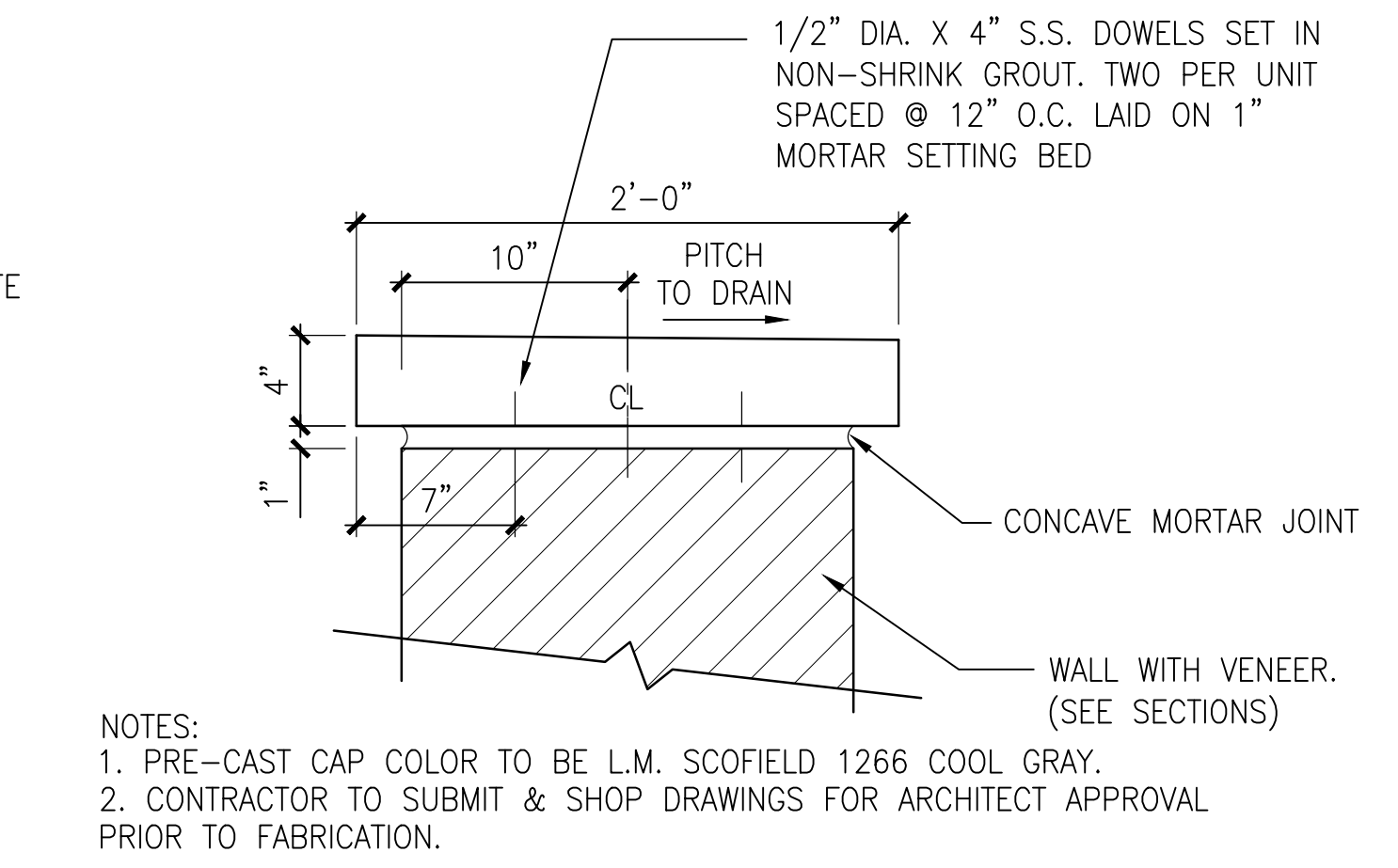
5 6' VINYL COATED LINE FENCING
SCALE: NTS FENCE_6'_Vinyl_Chain_Link



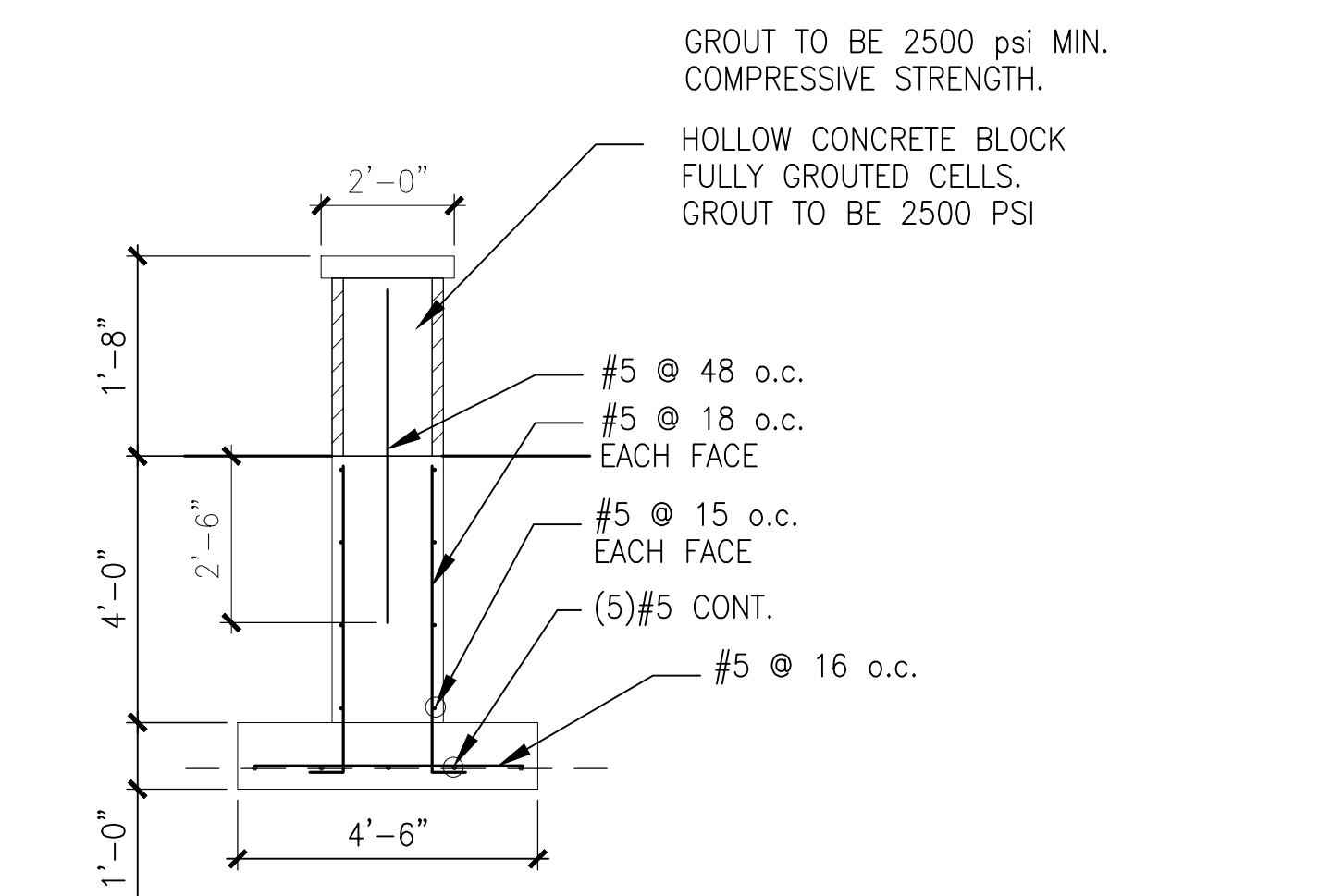
6 8' VINYL COATED LINE FENCING
SCALE: NTS FENCE_8'_Vinyl_Chain_Link



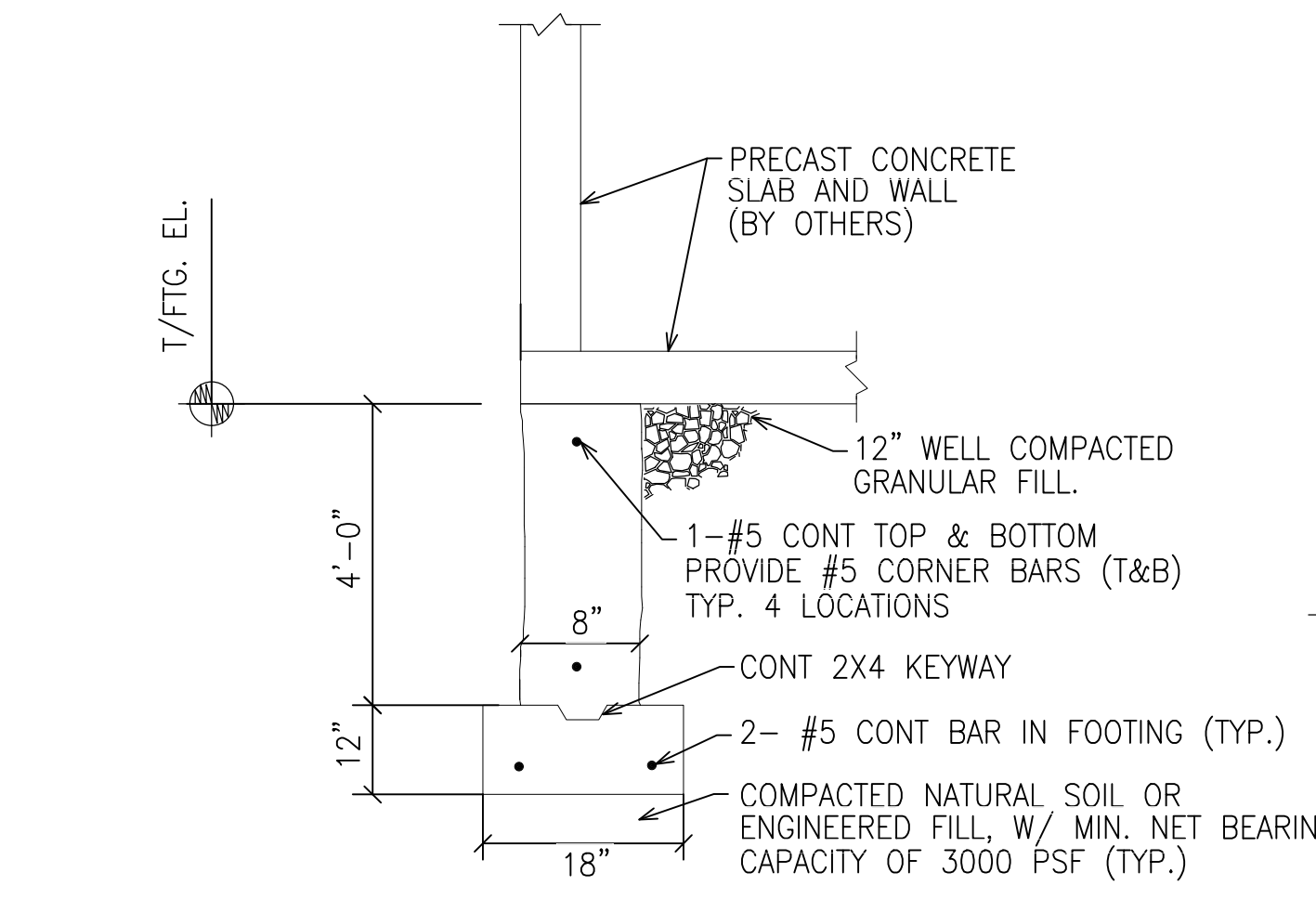
7 BACKSTOP WALL DETAIL
SCALE: N.T.S.



8 BACKSTOP WALL PRE-CAST CONCRETE CAP
SCALE: NTS

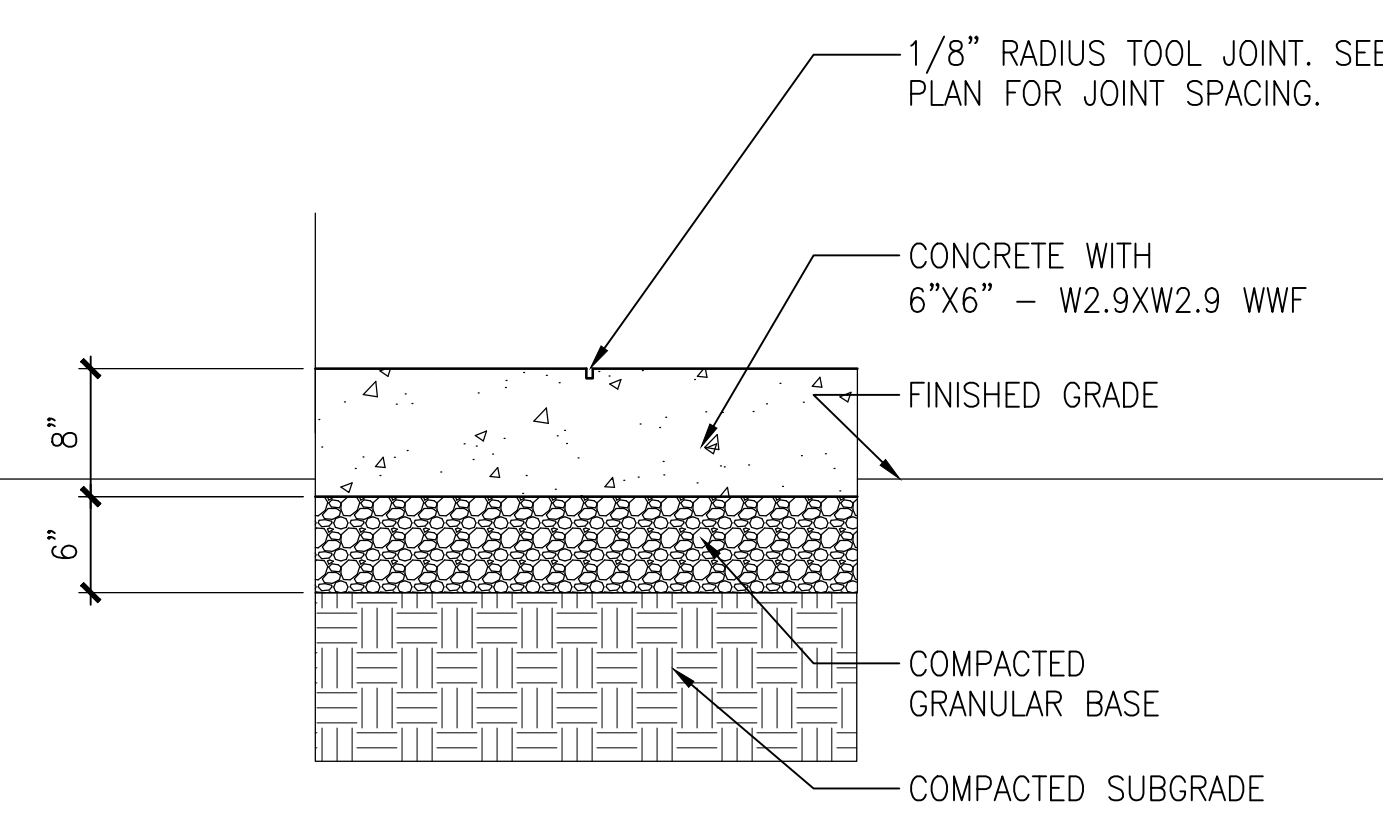


9 BACKSTOP WALL STRUCTURAL DETAIL
SCALE: N.T.S.



10 STRUCTURE FOUNDATION
SCALE: N.T.S.

NOTE: FOR ALL PAVEMENT AREAS SLOPES SHALL NOT EXCEED THE FOLLOWING: 2.0% CROSS SLOPE MAXIMUM; LONGITUDINAL SLOPE 5.0% MAXIMUM



11 8" CONCRETE PAD
SCALE: NTS



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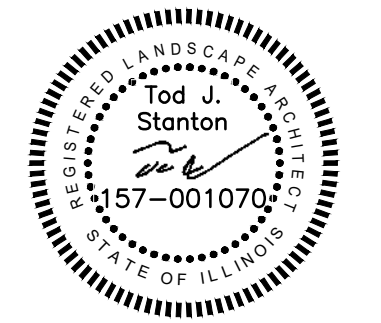
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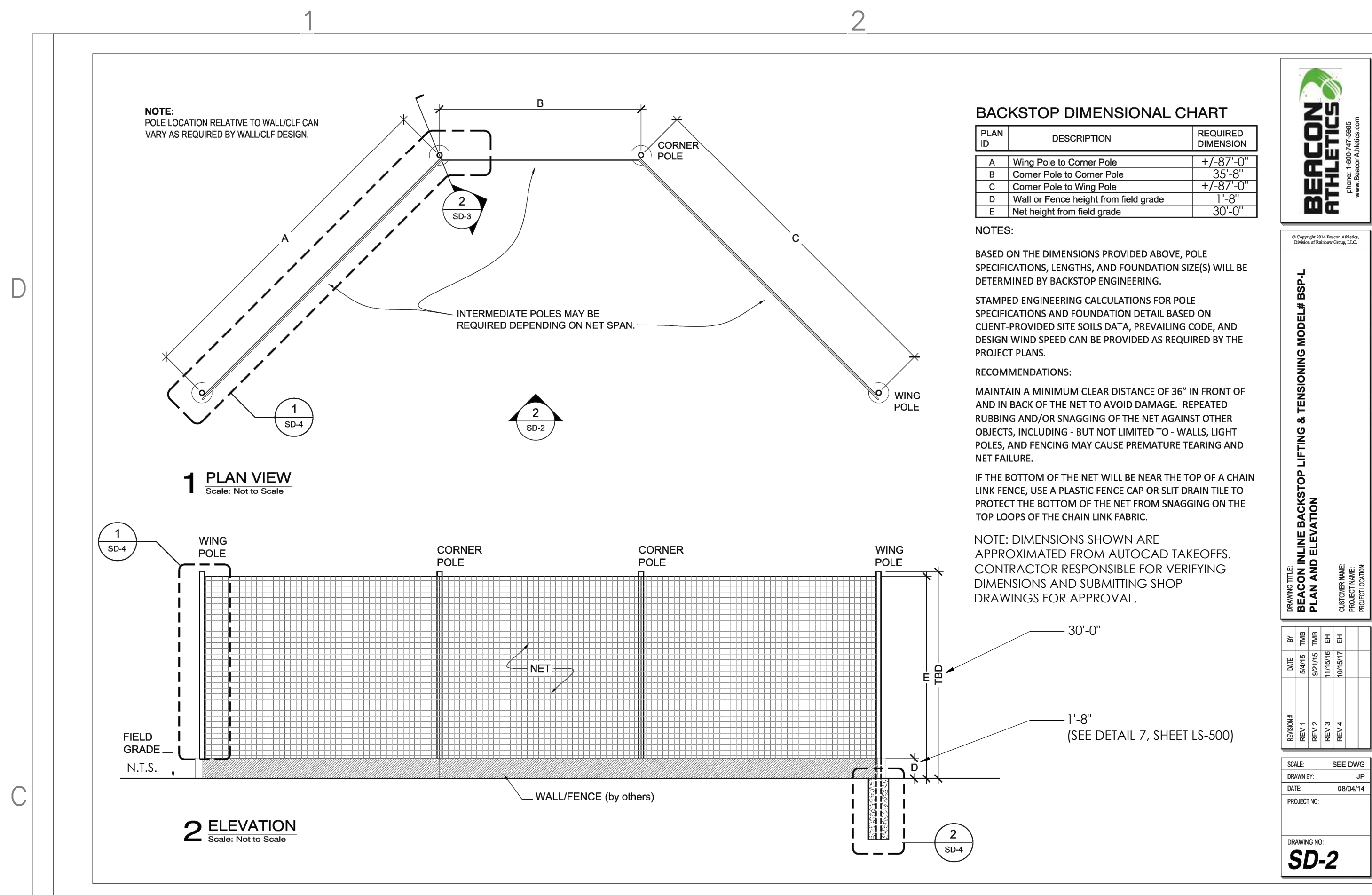
REV.	COMMENT	DATE

SEAL:



DATE: 9/20/2023
JOB NO.: 21-8112
DRAWN BY: JF
CHECKED BY: TS
DRAWING TITLE:
CONSTRUCTION DETAILS

SHEET NO.:
LS-500

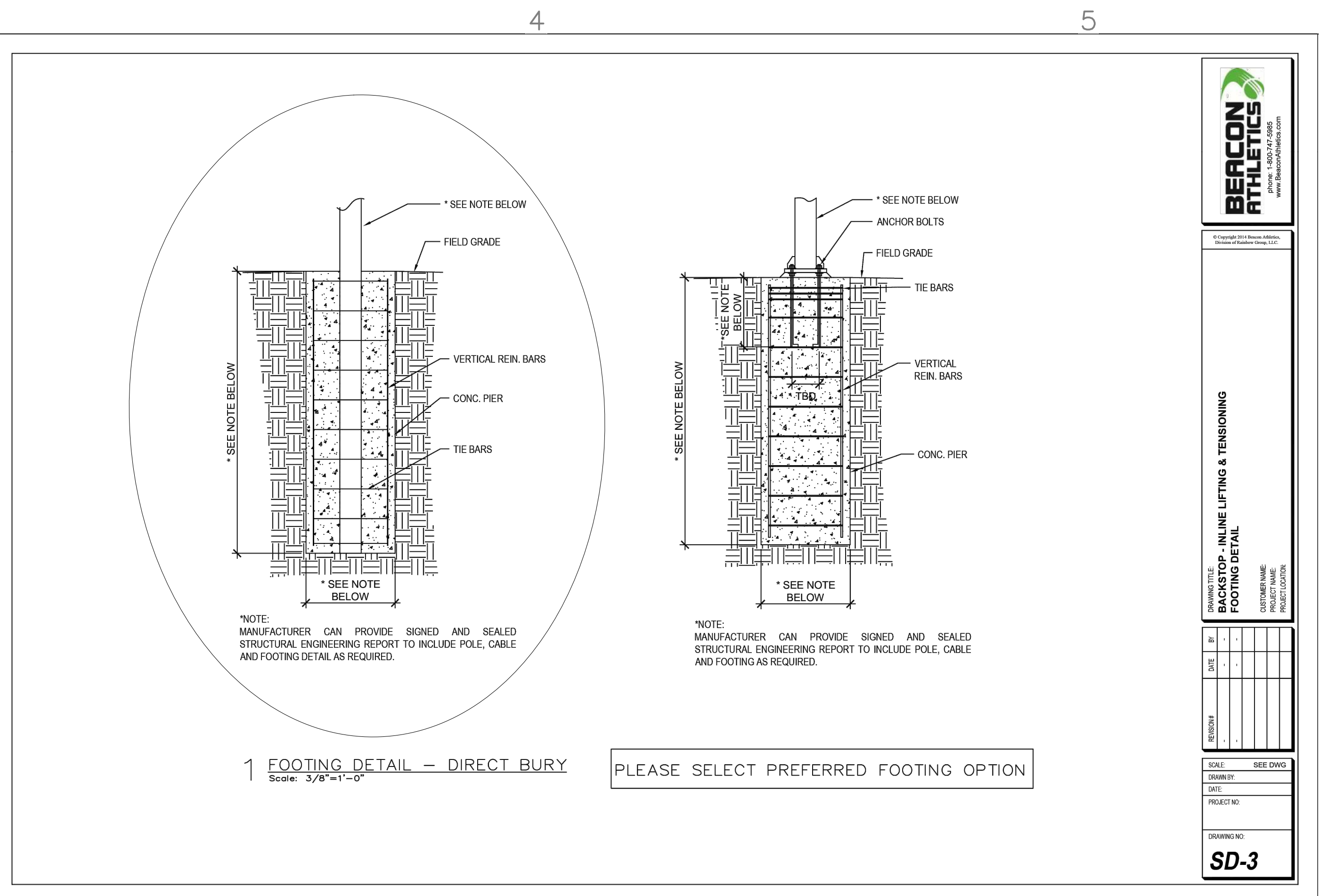


BERCON ATHLETICS
 1000 N. WINDY HOLLOW
 SUITE 100
 WILSONVILLE, OR 97150
 TEL: 503.261.2222
 WWW.BERCONATHLETICS.COM

BACKSTOP - IN-LINE LIFTING & TENSIONING MODEL BSL-P

DRAWN BY: []
 DATE: []
 CHECKED BY: []
 DATE: []
 REVISED BY: []
 DATE: []
 REVISED BY: []
 DATE: []

SCALE: SEE DWG
 DRAWN BY: []
 DATE: 08/04/14
 PROJECT NO: []
 DRAWING NO: **SD-2**



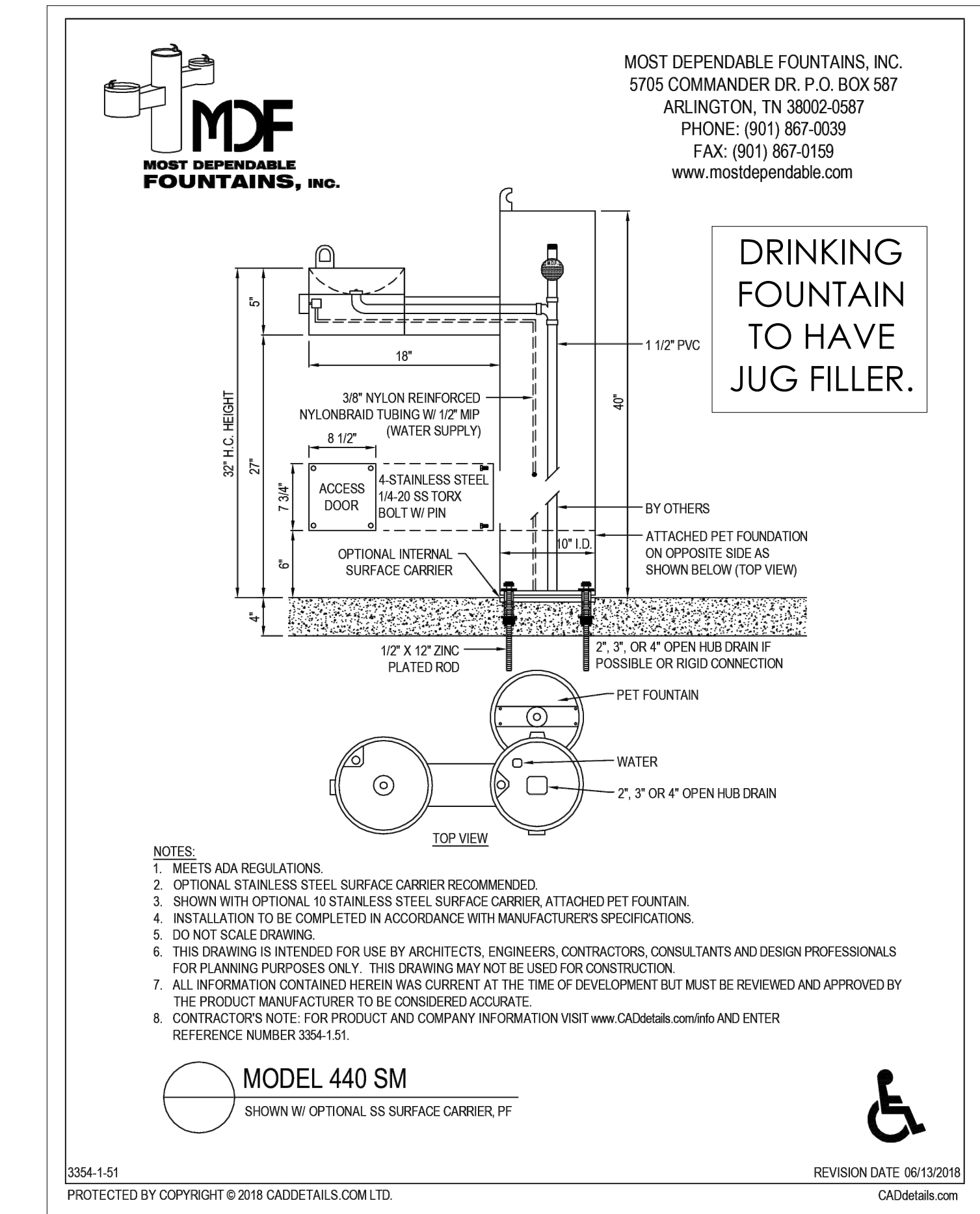
BERCON ATHLETICS
 1000 N. WINDY HOLLOW
 SUITE 100
 WILSONVILLE, OR 97150
 TEL: 503.261.2222
 WWW.BERCONATHLETICS.COM

BACKSTOP - IN-LINE LIFTING & TENSIONING FOOTING DETAIL

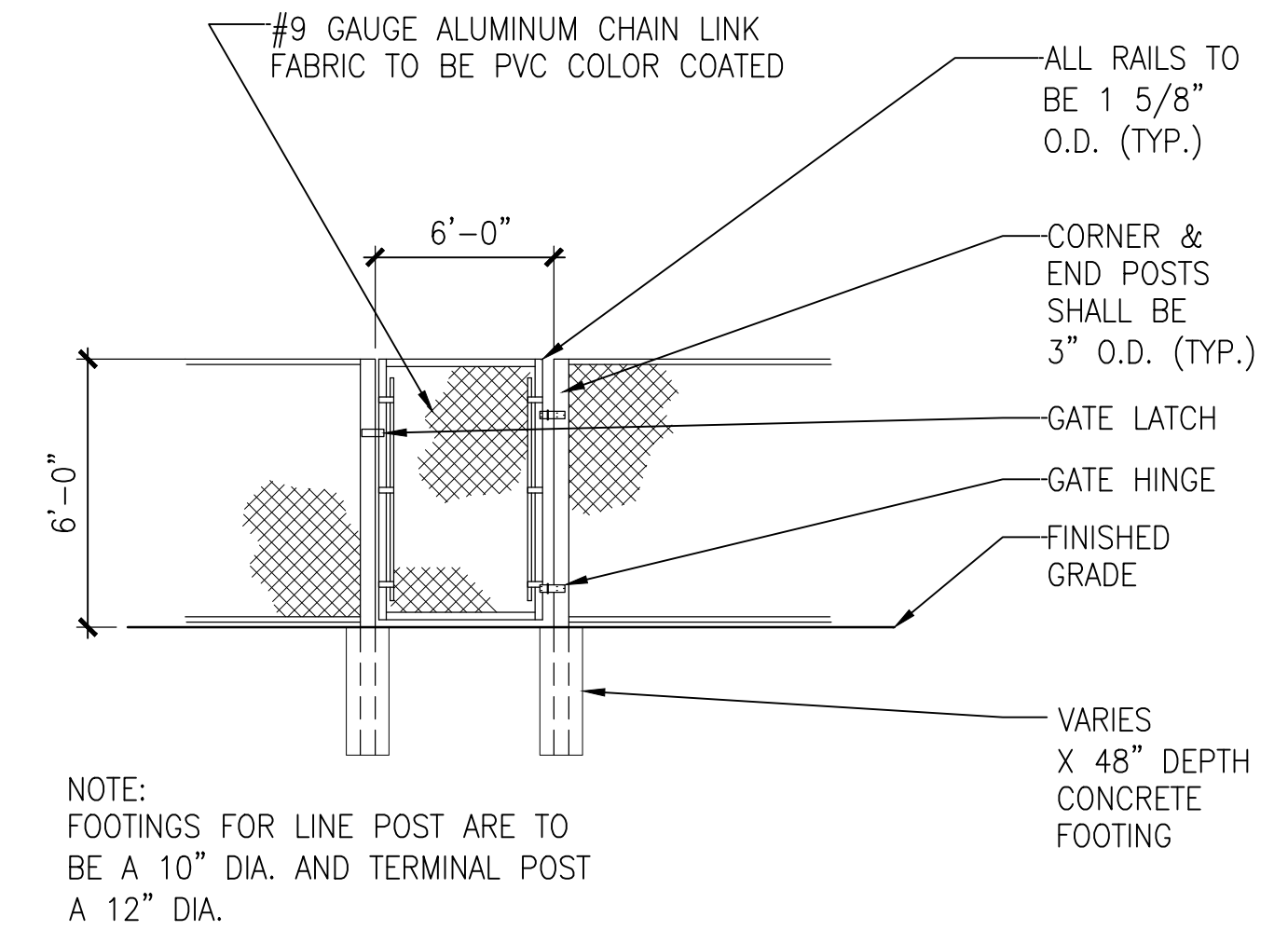
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SCALE: SEE DWG
 DRAWN BY: []
 DATE: []
 PROJECT NO: []
 DRAWING NO: **SD-3**

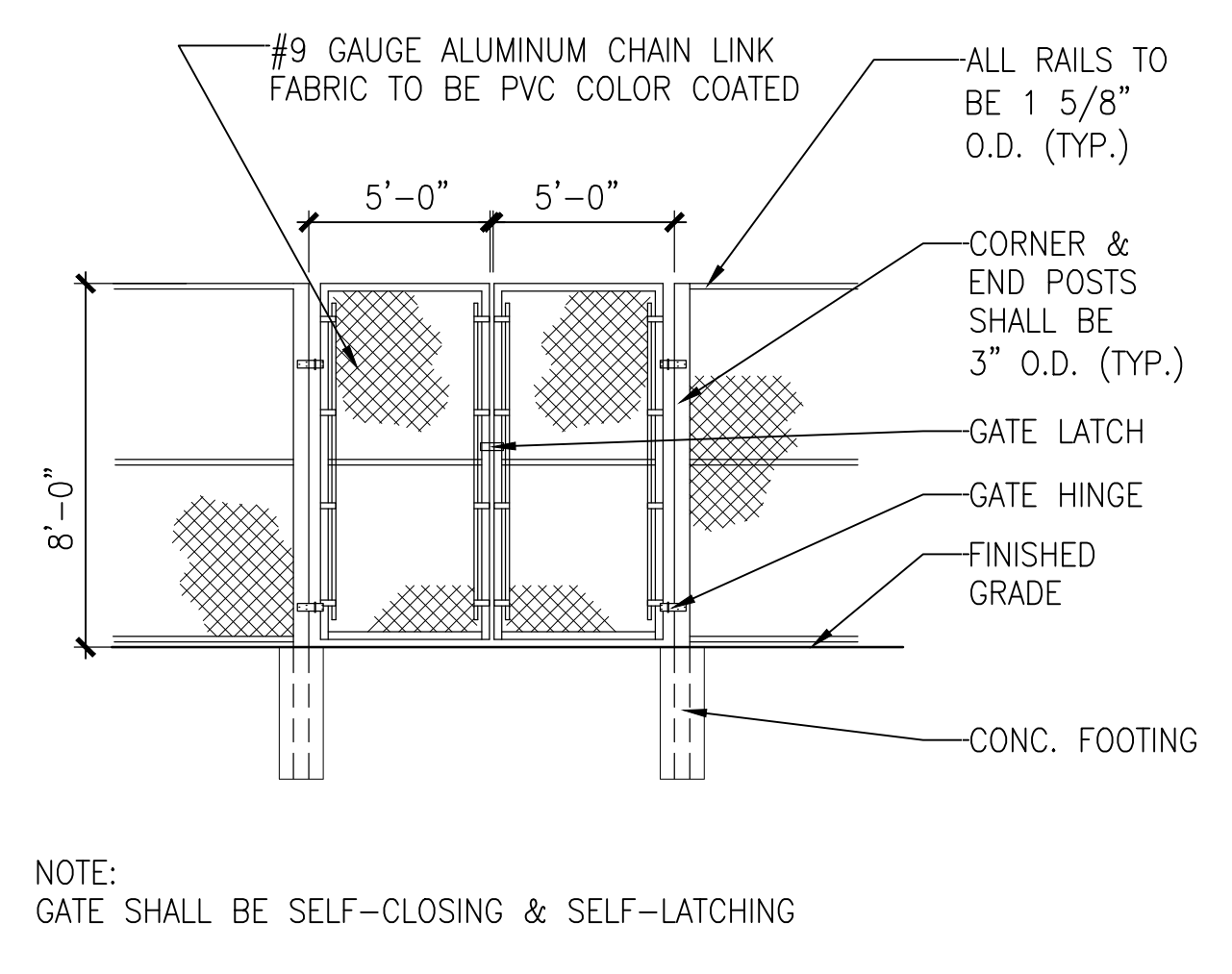
1 BACKSTOP CUTSHEETS



2 DRINKING FOUNTAIN REPLACEMENT
N.T.S.

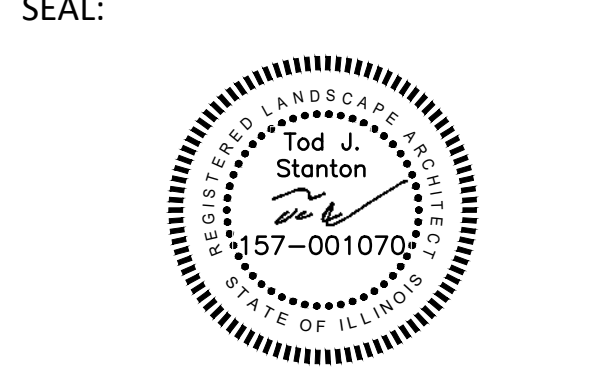


3 6' CHAIN LINK GATE
SCALE: NTS



4 8' CHAIN LINK DOUBLE GATE
SCALE: NTS

REV.	COMMENT	DATE



DATE: 9/20/2023
 JOB NO.: 21-8112
 DRAWN BY: JF
 CHECKED BY: TS

DRAWING TITLE:
BACKSTOP WITH NET FENCING & DRINKING FOUNTAIN CUT SHEETS
 SHEET NO.: **LS-501**

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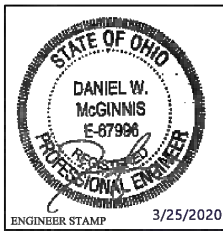
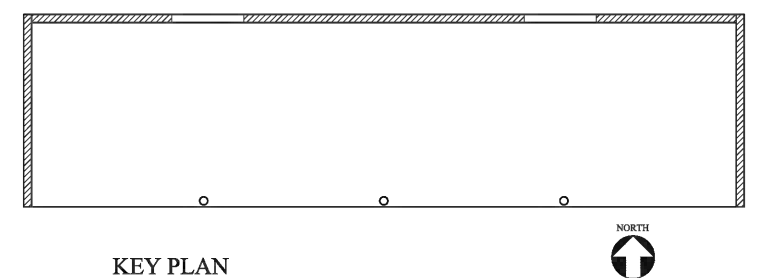
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 Design Firm: 184006777-0002

30'-0" X 8'-0" EASI-SET DUGOUT

SECTION	DESCRIPTION	REVISIONS
1	CONCRETE	1
2	ROOFING	1
3	WALLS	1
4	FLOOR	1
5	FOUNDATION	1
6	MECHANICAL	1
7	ELECTRICAL	1
8	PLUMBING	1
9	PAINT	1
10	FINISHES	1
11	OTHER	1

- GENERAL NOTES**
- CONCRETE: 5000 PSI @ 28 DAYS
 - ASR: 0.15-0.25
 - REINFORCING: ASTM A615 GRADE 60
 - WALLS ARE 4" NOMINAL PRECAST CONCRETE
 - ROOF IS 4" PRECAST CONCRETE
 - FLOOR IS 4" PRECAST CONCRETE
 - FOUNDATION BY OTHERS
 - CONCRETE MIN. DISJUNCTION AND PLACEMENT PER ACI 318-14
 - MINIMUM REQUIRED FIRE SEPARATION IS 10'-0" OF AN UNLIMITED AREA STRUCTURE
 - BUILDING SHALL NOT BE PLACED WITHIN 60'-0" OF AN UNLIMITED AREA STRUCTURE
 - BUILDING IS A STAND ALONE STRUCTURE
- *THIS BUILDING SHALL NOT BE LOCATED IN A FLOOD HAZARD ZONE*

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NCI
NATIONAL CONCRETE INDUSTRIES

EASI-SET
PRECAST BUILDING SYSTEMS

TITLE: 30'-0" X 8'-0" EASI-SET DUGOUT

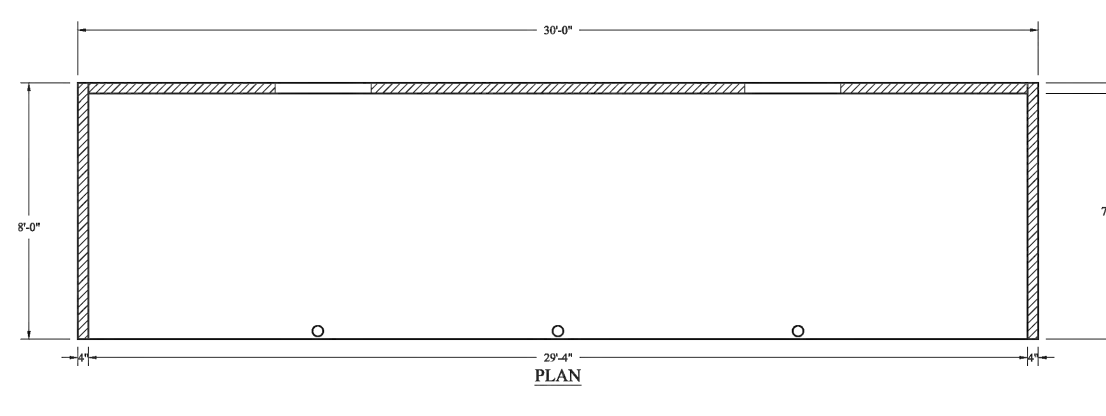
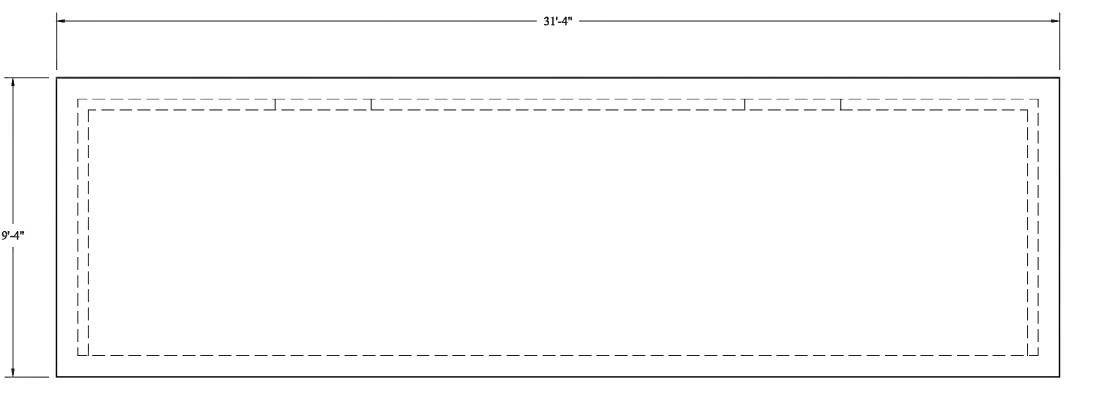
NCI JOB # ES-0082-20

PANEL WEIGHTS

ROOF	100 LBS
WALL	100 LBS
FLOOR	100 LBS
FOUNDATION	100 LBS

DESIGNED BY: ENR | CHECKED BY: ENR
DATE: 3-1-20 | REV. DATE: ENR
SCALE: AS NOTED | DWG. REF. # 15-4865

NCI DWS # ES-0082-20
TITLE: COVER | PG. 1 OF 10



NO.	DESCRIPTION
1	CONCRETE
2	ROOFING
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TITLE: 30'-0" X 8'-0" EASI-SET DUGOUT

NCI JOB # ES-0082-20

NCI
NATIONAL CONCRETE INDUSTRIES

EASI-SET
PRECAST BUILDING SYSTEMS

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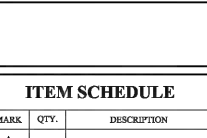
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DATE: 3-1-20 | REV. DATE: ENR
SCALE: AS NOTED | DWG. REF. # 15-4865

NCI DWS # ES-0082-20
TITLE: PLAN | PG. 2 OF 10

EASI-SET
PRECAST BUILDING SYSTEMS

TITLE: PLAN | PG. 2 OF 10



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NATIONAL CONCRETE INDUSTRIES

EASI-SET
PRECAST BUILDING SYSTEMS

TITLE: 30'-0" X 8'-0" EASI-SET DUGOUT

NCI JOB # ES-0082-20

NCI
NATIONAL CONCRETE INDUSTRIES

EASI-SET
PRECAST BUILDING SYSTEMS

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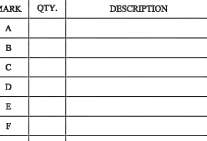
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DATE: 3-1-20 | REV. DATE: ENR
SCALE: AS NOTED | DWG. REF. # 15-4865

NCI DWS # ES-0082-20
TITLE: ELEVATIONS | PG. 4 OF 10

EASI-SET
PRECAST BUILDING SYSTEMS

TITLE: ELEVATIONS | PG. 4 OF 10



NCI
NATIONAL CONCRETE INDUSTRIES

EASI-SET
PRECAST BUILDING SYSTEMS

TITLE: 30'-0" X 8'-0" EASI-SET DUGOUT

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NATIONAL CONCRETE INDUSTRIES

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PRECAST BUILDING SYSTEMS

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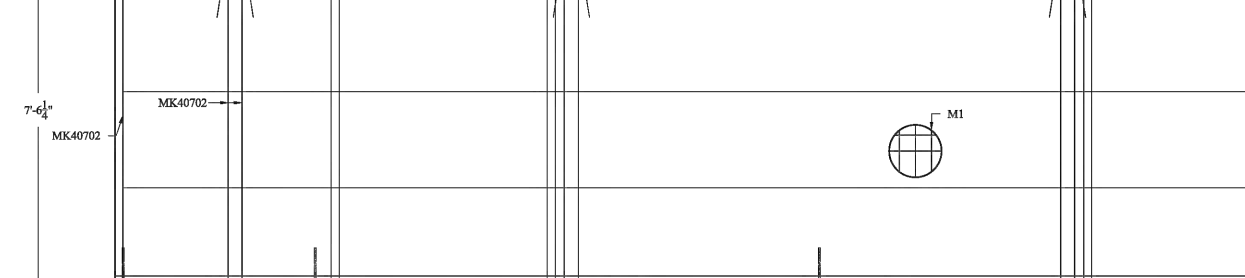
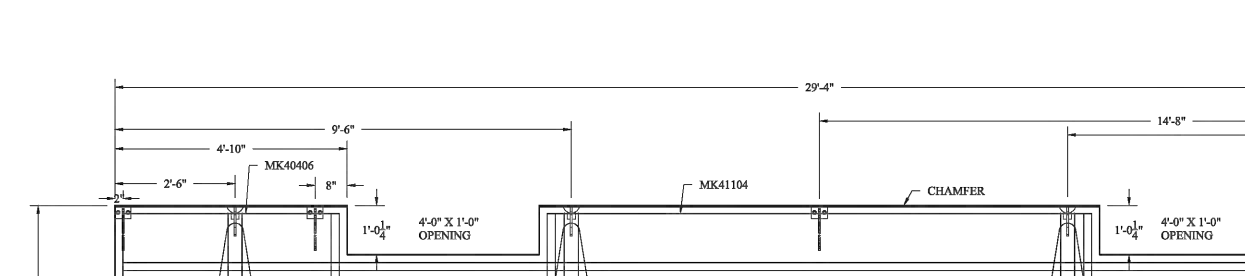
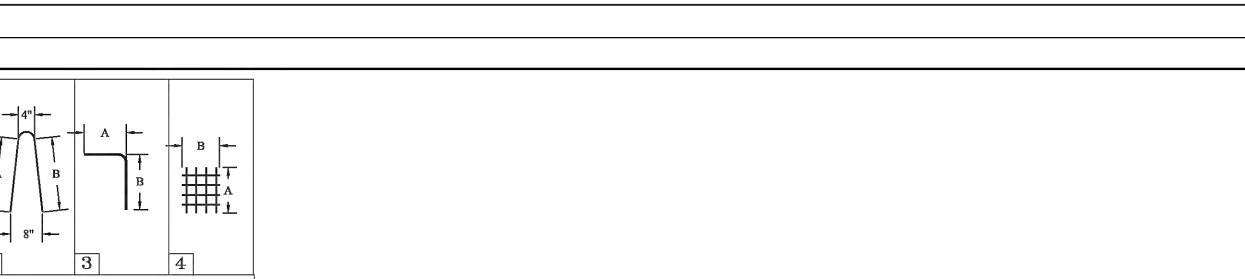
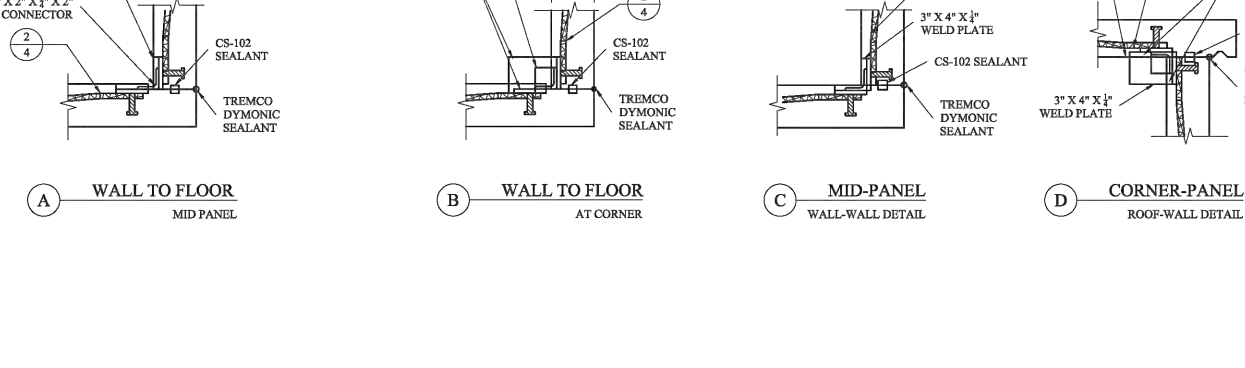
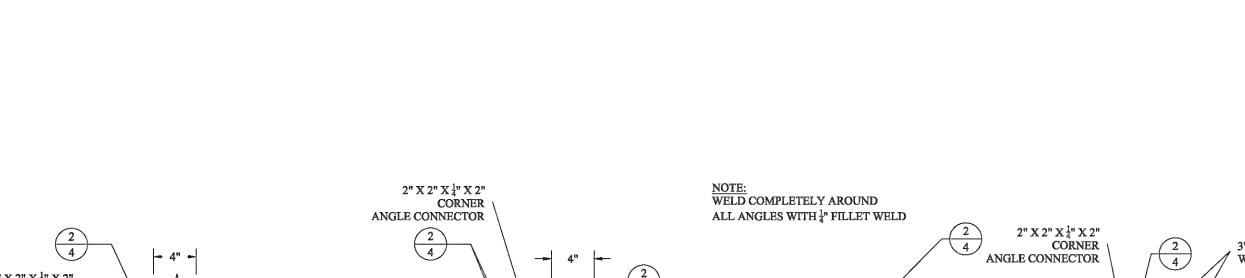
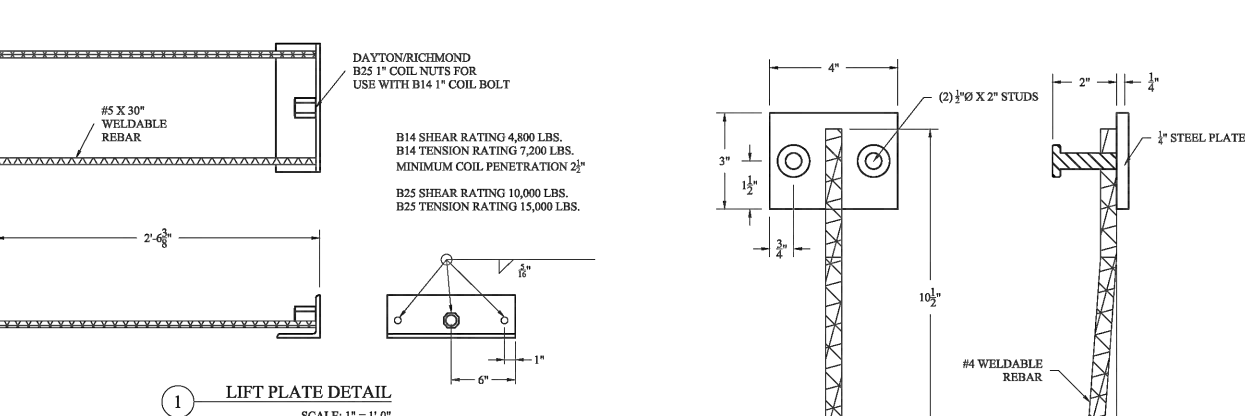
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SCALE: AS NOTED | DWG. REF. # 15-4865

NCI DWS # ES-0082-20
TITLE: REINFORCING | PG. 4 OF 10

EASI-SET
PRECAST BUILDING SYSTEMS

TITLE: REINFORCING | PG. 4 OF 10



NO.	DESCRIPTION
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2	ROOFING
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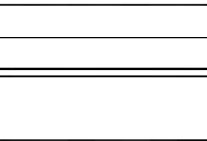
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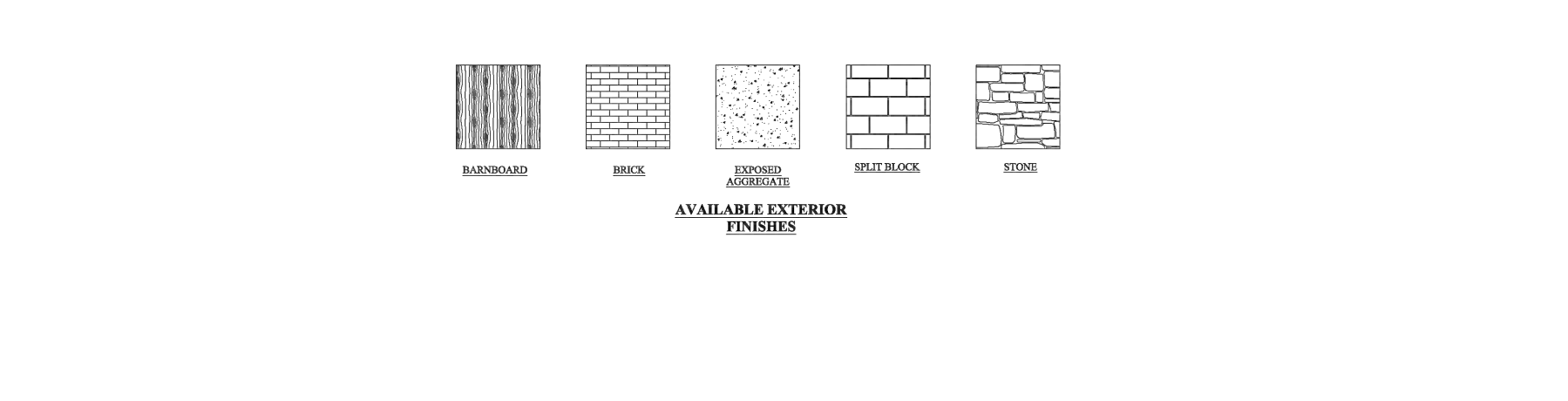
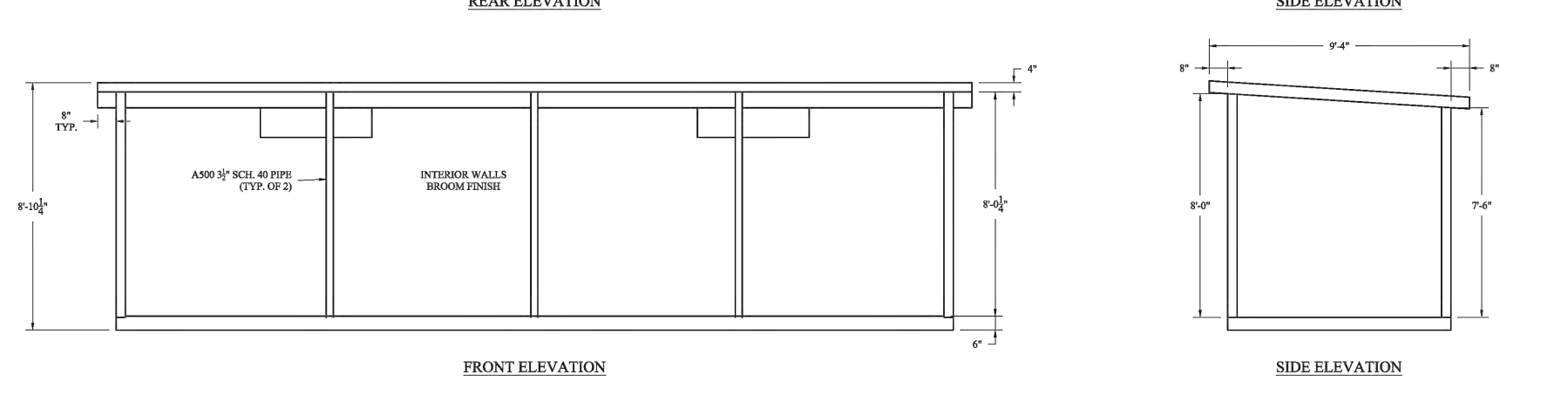
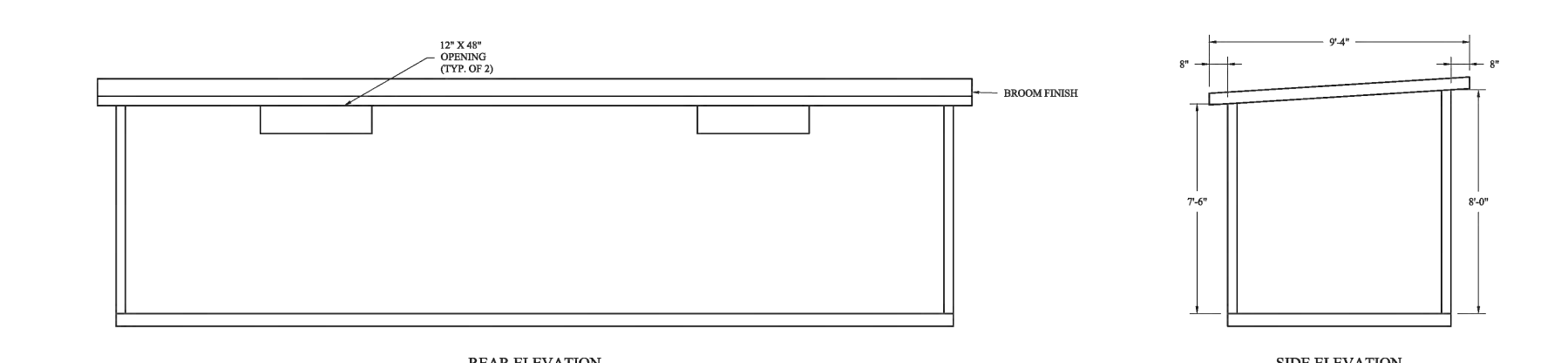
EASI-SET
PRECAST BUILDING SYSTEMS

TITLE: REINFORCING | PG. 4 OF 10



EASI-SET
PRECAST BUILDING SYSTEMS

TITLE: REINFORCING | PG. 4 OF 10



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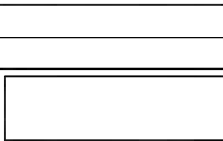
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NCI DWS # ES-0082-20
TITLE: ELEVATIONS | PG. 1 OF 10

EASI-SET
PRECAST BUILDING SYSTEMS

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NATIONAL CONCRETE INDUSTRIES

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SCALE: AS NOTED | DWG. REF. # 15-4865

NCI DWS # ES-0082-20
TITLE: MESH SCHEDULE | PG. 5 OF 10

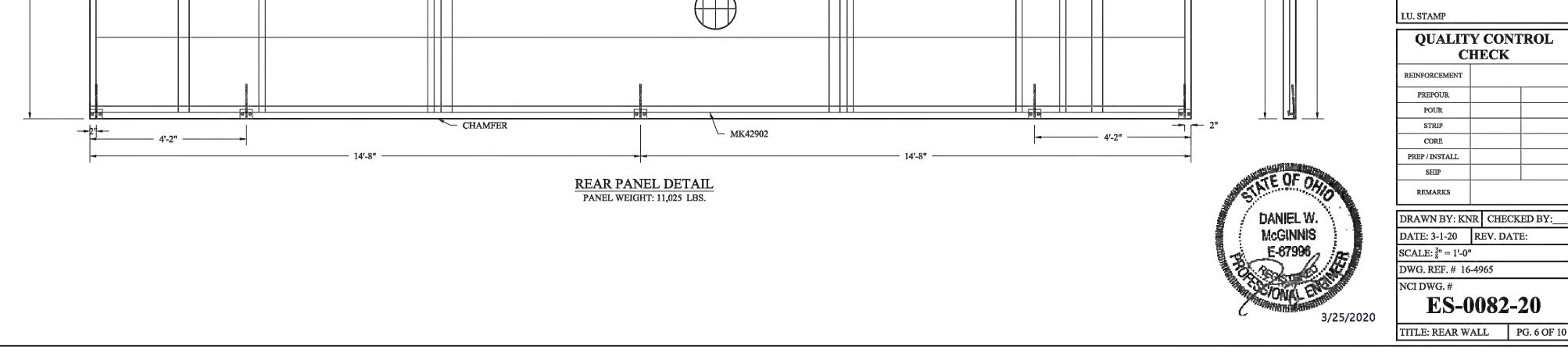
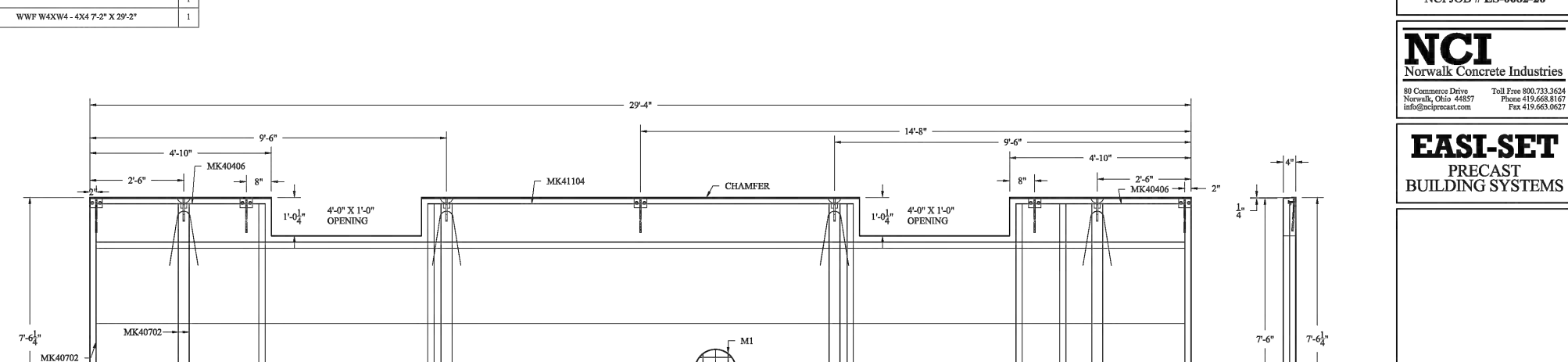
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TITLE: MESH SCHEDULE | PG. 5 OF 10



EASI-SET
PRECAST BUILDING SYSTEMS

TITLE: MESH SCHEDULE | PG. 5 OF 10



NO.	DESCRIPTION
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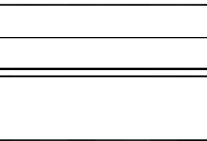
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EASI-SET
PRECAST BUILDING SYSTEMS

TITLE: REINFORCING | PG. 4 OF 10



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EASI-SET
PRECAST BUILDING SYSTEMS

TITLE: REINFORCING | PG. 4 OF 10



EASI-SET
PRECAST BUILDING SYSTEMS

TITLE: REINFORCING | PG. 4 OF 10

ITEM	TYPE	COLOR
EXTERIOR WALLS	SEEREN WILLIAMS B & C	TRD
INTERIOR WALLS	PROSOCC BLOCK GUARD	CLEAR SEALANT
FLOORS		
DOORS	SEEREN WILLIAMS B&B&C	TRD
ROOF	SEEREN WILLIAMS B&B&C FOR ASTM C-400	BY OTHERS

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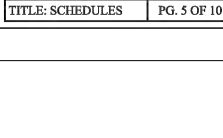
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EASI-SET
PRECAST BUILDING SYSTEMS

TITLE: MESH SCHEDULE | PG. 5 OF 10

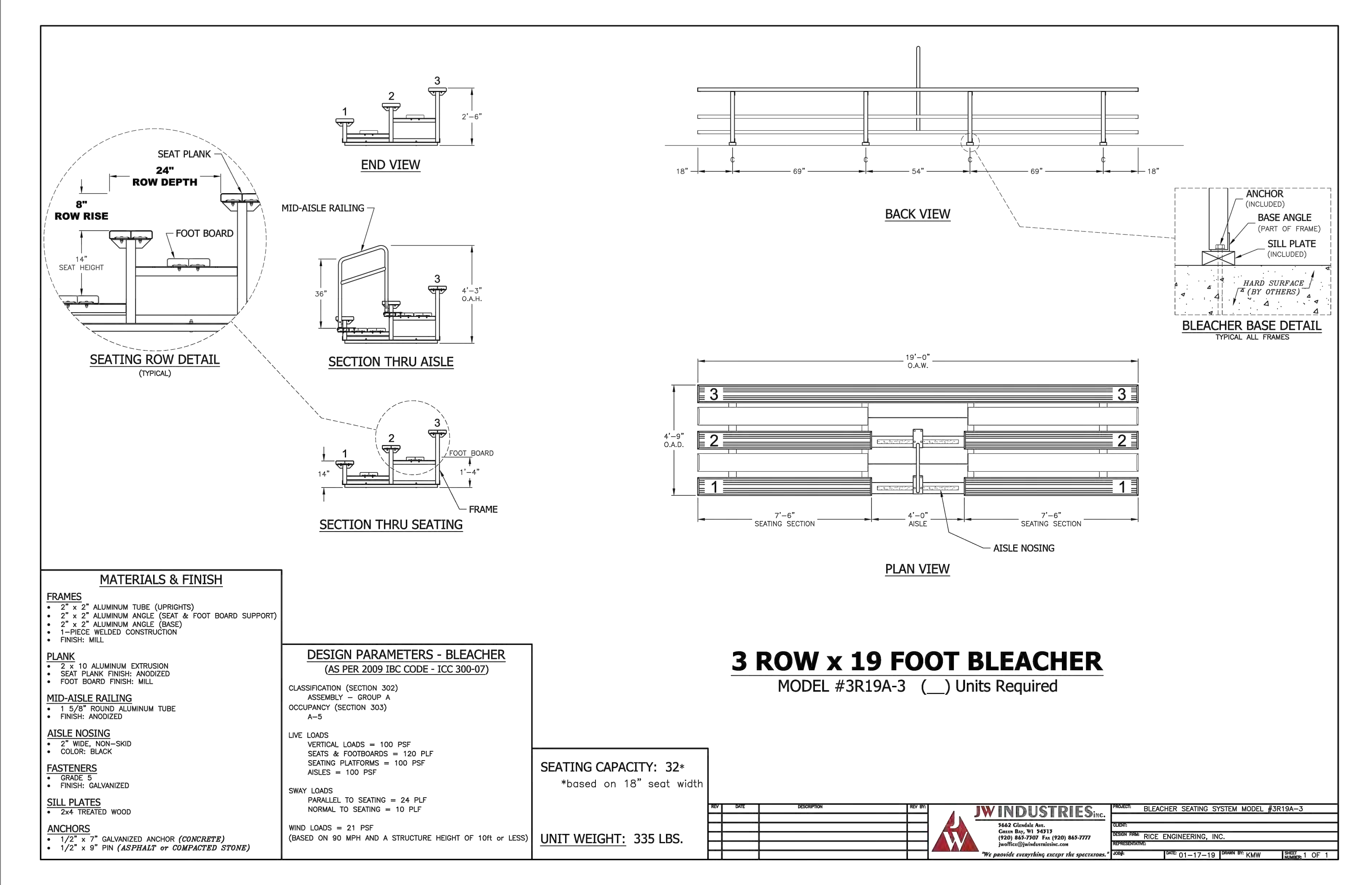


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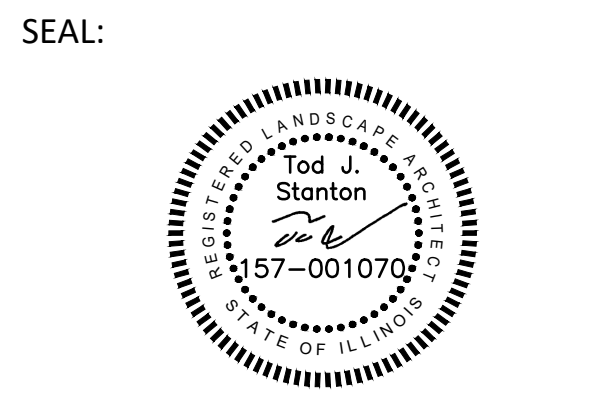
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REV.	COMMENT	DATE



DATE: 9/20/2023
JOB NO.: 21-8112
DRAWN BY: JF
CHECKED BY: TS

DRAWING TITLE:
BLEACHER SYSTEM CUT SHEET

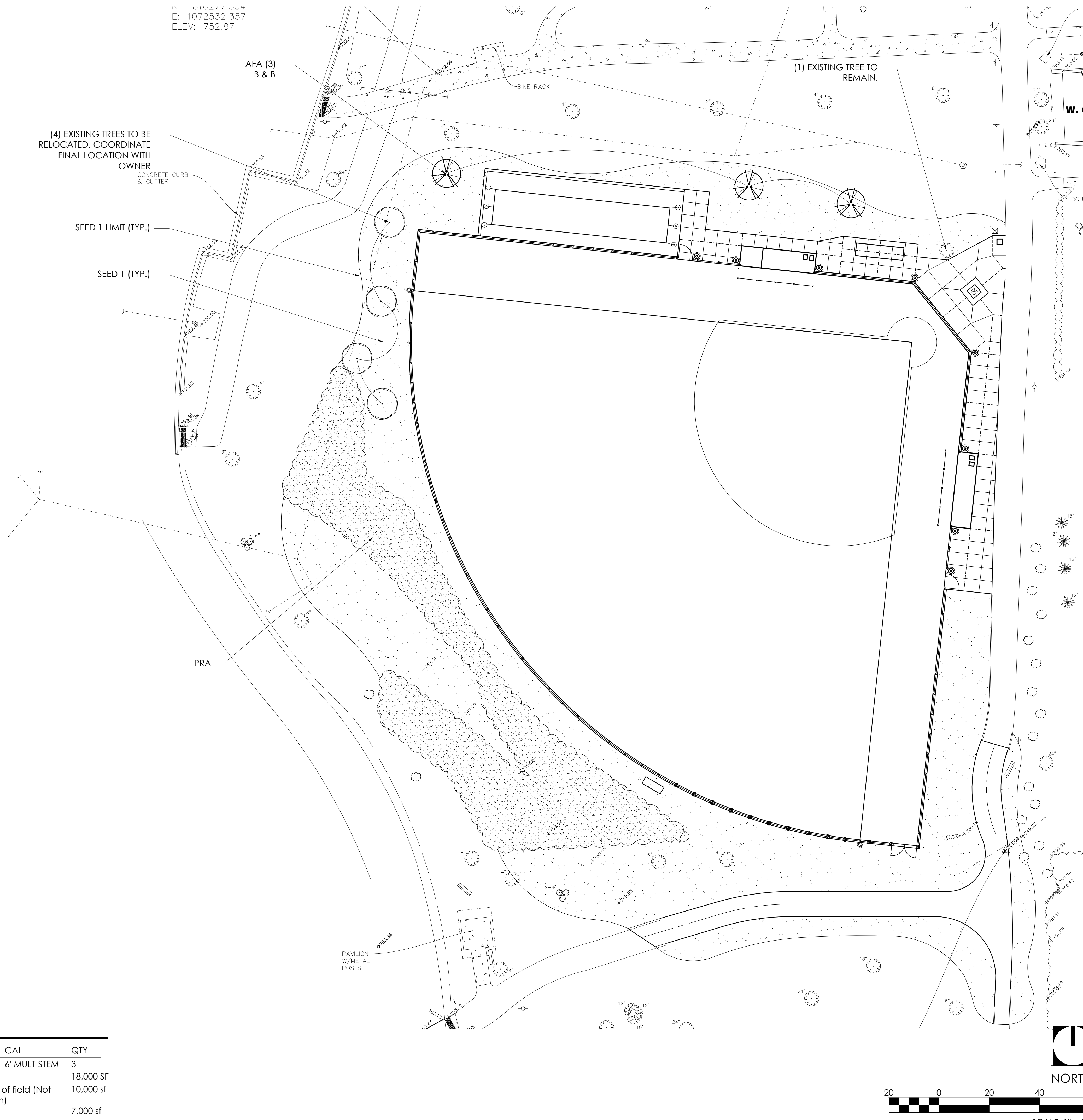
SHEET NO.:
LS-506

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ISSUED FOR BIDDING

PRA SEED MIIX - MIDWEST MESIC POLLINATOR MIX

Botanical Name	Common Name	PLS Oz/Acre
Permanent Grasses/Sedges		
<i>Schizachyrium scoparium</i>	Little Bluestem	36.00
<i>Sorghastrum nutans</i>	Indian Grass	2.00
<i>Sporobolus heterolepis</i>	Prairie Dropseed	6.00
Total		44.00
Temporary Cover		
<i>Avena sativa</i>	Common Oat	512.00
Total		512.00
Forbs		
<i>Agastache foeniculum</i>	Lavender Hyssop	2.00
<i>Allium cernuum</i>	Nodding Onion	2.00
<i>Amorpha canescens</i>	Lead Plant	2.00
<i>Asclepias syriaca</i>	Common Milkweed	10.00
<i>Asclepias tuberosa</i>	Butterfly Weed	2.00
<i>Baptisia bracteata</i>	Cream Wild Indigo	1.00
<i>Chamaecrista fasciculata</i>	Partridge Pea	8.00
<i>Dalea candida</i>	White Prairie Clover	3.00
<i>Echinacea pallida</i>	Purple Coneflower	4.00
<i>Echinacea purpurea</i>	Broad-Leaved Purple Coneflower	8.00
<i>Eryngium yuccifolium</i>	Rattlesnake Master	2.00
<i>Liatris pycnostachya</i>	Prairie Blazing Star	1.00
<i>Lupinus perennis v. occidentalis</i>	Wild Lupine	4.00
<i>Monarda fistulosa</i>	Wild Bergamot	2.00
<i>Penstemon digitalis</i>	Foxglove Beard Tongue	1.00
<i>Penstemon hirsutus</i>	Hairy Beard Tongue	1.00
<i>Pycnanthemum virginianum</i>	Common Mountain Mint	0.50
<i>Senna hebecarpa</i>	Wild Senna	4.00
<i>Silphium perfoliatum</i>	Cup Plant	1.00
<i>Solidago speciosa</i>	Showy Goldenrod	1.00
<i>Symphotrichum laeve</i>	Smooth Blue Aster	1.00
<i>Symphotrichum novae-angliae</i>	New England Aster	0.50
<i>Tradescantia ohlensis</i>	Common Spiderwort	2.00
<i>Verbena stricta</i>	Hoary Vervain	2.00
<i>Verbesina alternifolia</i>	Wingstem	2.00
<i>Vernonia gigantea</i>	Smooth Tall Ironweed	1.00
Total		68.00



PLANT SCHEDULE

TREES	BOTANICAL NAME/COMMON NAME	CONT	CAL	QTY
AAB	Amelanchier x grandiflora 'Autum Brilliance'/Autumn Brilliance Serviceberry	B & B	6' MULT-STEM	3
SEED 1	Legend Elite Sport ProNitro Plus Grass Seed with Blanket			18,000 SF
SEED 2	ALLOWANCE - Legend Elite Sport ProNitro Plus Grass Seed with Blanket at basin southwest of field (Not shown on Landscape Sheets; See Civil Sheets; Limits to be determined during Construction)			10,000 sf
PRA	Midwest Mesic Pollinator Mix with Blanket			7,000 sf



LEMONT PARK DISTRICT
2023 MIRACLE FIELD OSLAD
RE-DEVELOPMENT
16028 127th Street
Lemont, IL 60439



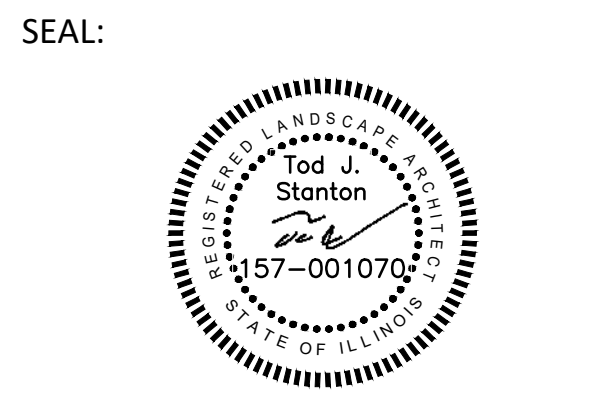
1167 Hobson Mill Drive
Naperville, Illinois 60540
Telephone: (630) 606-0776
www.design-perspectives.net

In association with



650 E. Algonquin Road
Suite 250
Schaumburg, IL 60173
Telephone: (847) 756 - 4180
www.rtmec.com
Design Firm: 184006777-0002

REV.	COMMENT	DATE



DATE: 9/20/2023
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CHECKED BY: TS

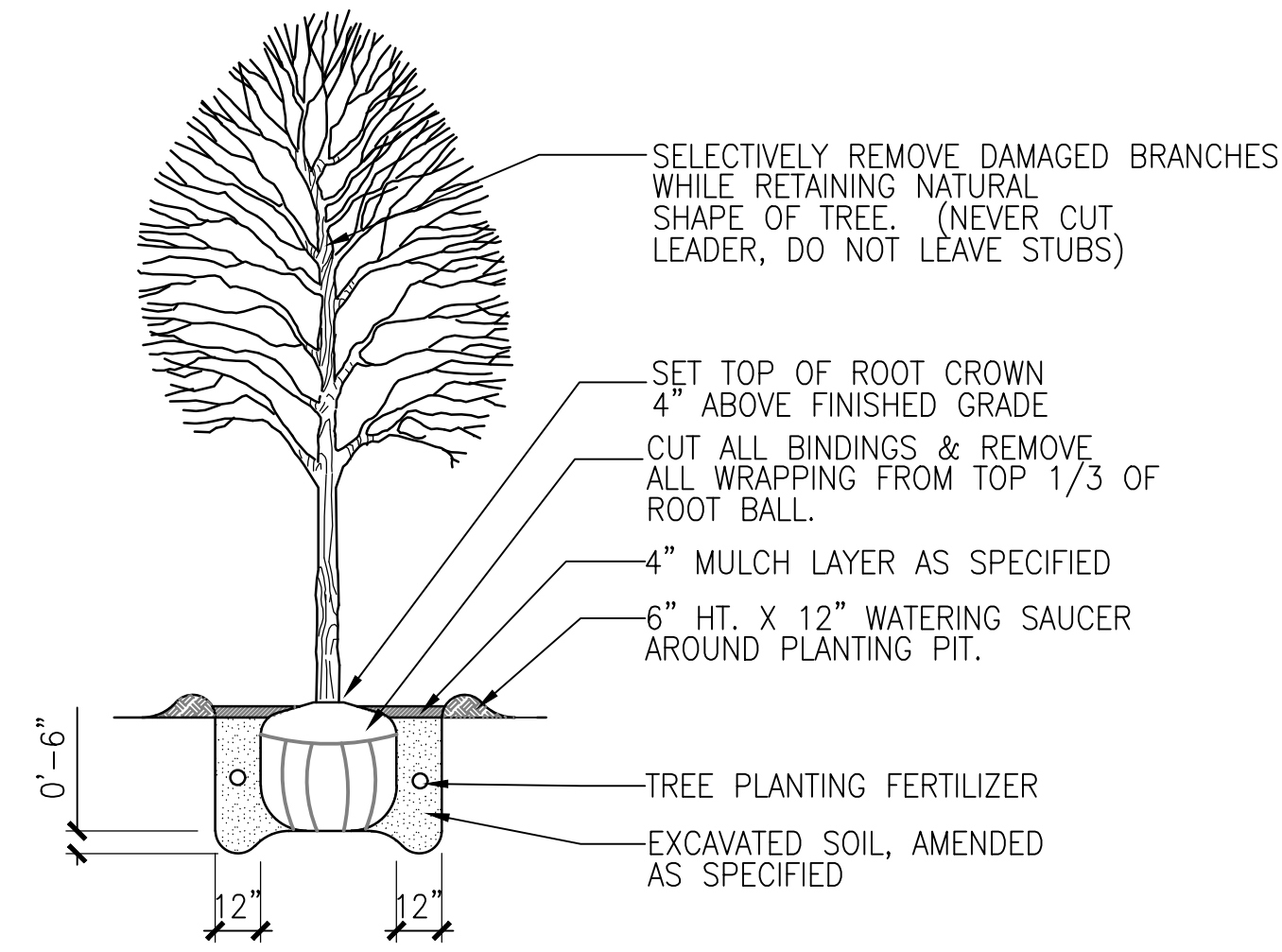
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SHEET NO.:
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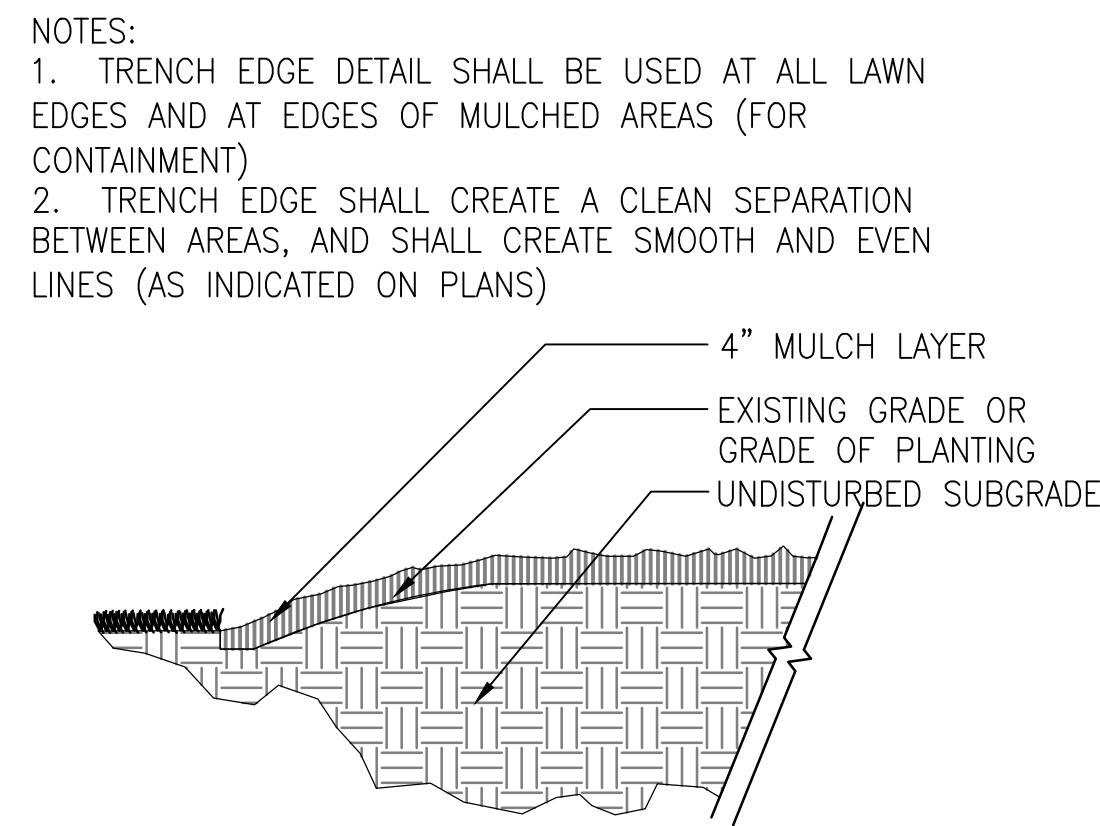
ISSUED FOR BIDDING



In association with



1 SHADE TREE PLANTING
SCALE: NTS DT-planting-gyn



2 TRENCH EDGE DETAIL
SCALE: 1"=1'-0" DT-is-trench-gyn

1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR MAKING HIMSELF FAMILIAR WITH ALL UNDERGROUND UTILITIES AND STRUCTURES. SEE CONSTRUCTION NOTES.
2. DO NOT WILLFULLY PROCEED WITH PLANTINGS AS DESIGNED WHEN IT IS OBVIOUS THAT OBSTRUCTIONS AND/OR GRADE DIFFERENCES EXIST THAT MAY NOT HAVE BEEN KNOWN DURING THE DESIGN PROCESS. SUCH CONDITIONS SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER. THE LANDSCAPE CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY NECESSARY REVISIONS AND COSTS DUE TO FAILURE TO GIVE SUCH NOTIFICATION.
3. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COORDINATION WITH SUBCONTRACTORS AND/OR SUPPLIERS AS REQUIRED TO ACCOMPLISH PLANTING OPERATIONS.
4. THE LANDSCAPE CONTRACTOR IS TO RECEIVE THE SITE AT +/- 1/10TH OF AN INCH. THE LANDSCAPE CONTRACTOR SHALL OBTAIN A LETTER OF GRADE FROM THE GENERAL CONTRACTOR PRIOR TO BEGINNING WORK.
5. REFER TO SPECIFICATIONS FOR PLANTING REQUIREMENTS, MATERIALS, AND EXECUTION.
6. ALL TREES SHALL BE TAGGED BY THE PROJECT MANAGER AT A NURSERY SELECTED BY THE LANDSCAPE CONTRACTOR OR AT THE DISCRETION OF THE PROJECT MANAGER.

3 PLANTING NOTES
SCALE: NTS DT-plantnote-gyn


7. FINAL LOCATION OF ALL PLANT MATERIAL SHALL BE SUBJECT TO APPROVAL OF THE PROJECT MANAGER PRIOR TO DIGGING ANY HOLES. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PROJECT MANAGER ADEQUATE ADVANCE NOTICE FOR ON-SITE APPROVALS. THE LANDSCAPE CONTRACTOR IS TO THE FOLLOWING BEFORE BEGINNING INSTALLING PLANTINGS:

SHRUBS – LAY OUT THE ACTUAL CONTAINERS ON-SITE BEFORE DIGGING HOLES.

TREES – STAKE THE LOCATIONS BEFORE DIGGING HOLES. ANY TREE PLANTED WITHOUT ITS FINAL LOCATION APPROVED BY THE PROJECT MANAGER MAY BE REQUESTED TO BE RELOCATED AT THE SOLE EXPENSE OF THE LANDSCAPE CONTRACTOR.
8. THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE PROJECT MANAGER AT LEAST 48 HOURS IN ADVANCE PRIOR TO COMMENCEMENT OF WORK TO COORDINATE PROJECT OBSERVATION SCHEDULES.
9. IF CONFLICTS ARISE BETWEEN THE ACTUAL SIZE OF AREAS ON THE SITE AND THE DRAWINGS, CONTACT THE PROJECT MANAGER FOR RESOLUTION.
10. IT IS THE LANDSCAPE CONTRACTOR'S RESPONSIBILITY TO FURNISH PLANTS FREE OF PESTS AND/OR DISEASES. PRE-SELECTED OR "PROJECT MANAGER TAGGED" PLANT MATERIAL MUST BE INSPECTED BY THE LANDSCAPE CONTRACTOR AND CERTIFIED PEST AND DISEASE FREE. IT IS THE LANDSCAPE CONTRACTOR'S OBLIGATION TO WARRANTY ALL PLANT MATERIAL PER THE SPECIFICATIONS.

11. GROUNDCOVERS AND SHRUBS ARE TO BE TRIANGULARLY SPACED UNLESS INDICATED ON THE PLANS.
12. ALL TREES WITHIN A SPECIES SHALL HAVE MATCHING FORM, UNLESS OTHERWISE NOTED.
13. ALL TREES, SHRUB AND GROUNDCOVER AREAS (EXCLUDING TURF AND SLOPE AREAS) ARE TO BE MULCHED PER DETAILS.
14. ALL MULCH TO BE DOUBLE SHREDDED HARDWOOD MULCH, BROWN IN COLOR MINIMUM 4" THICK.
15. TREES SHALL BE SET BACK A MINIMUM OF TEN FEET (10') HORIZONTALLY FROM UTILITY STRUCTURES, INCLUDING, BUT NOT LIMITED TO, MANHOLES, VALVE VAULTS, VALVE BOXES, FIRE HYDRANTS, TRANSFORMERS AND SWITCH CANS. TREES SHALL BE SET BACK A MINIMUM OF FIVE (5') HORIZONTALLY FROM SANITARY SEWER AND WATER SERVICES. CONTRACTOR TO MAKE NECESSARY ADJUSTMENTS UNDER THE APPROVAL OF OWNER.
16. PLANTING RESTRICTIONS: PLANT DURING ONE OF THE FOLLOWING PERIODS. COORDINATE PLANTING PERIODS WITH MAINTENANCE PERIODS TO PROVIDE REQUIRED MAINTENANCE FROM DATE OF SUBSTANTIAL COMPLETION.
 1. SPRING PLANTING: 5/1 – 6/15
 2. FALL PLANTING: 9/15 – 12/1

REV.	COMMENT	DATE

SEAL:


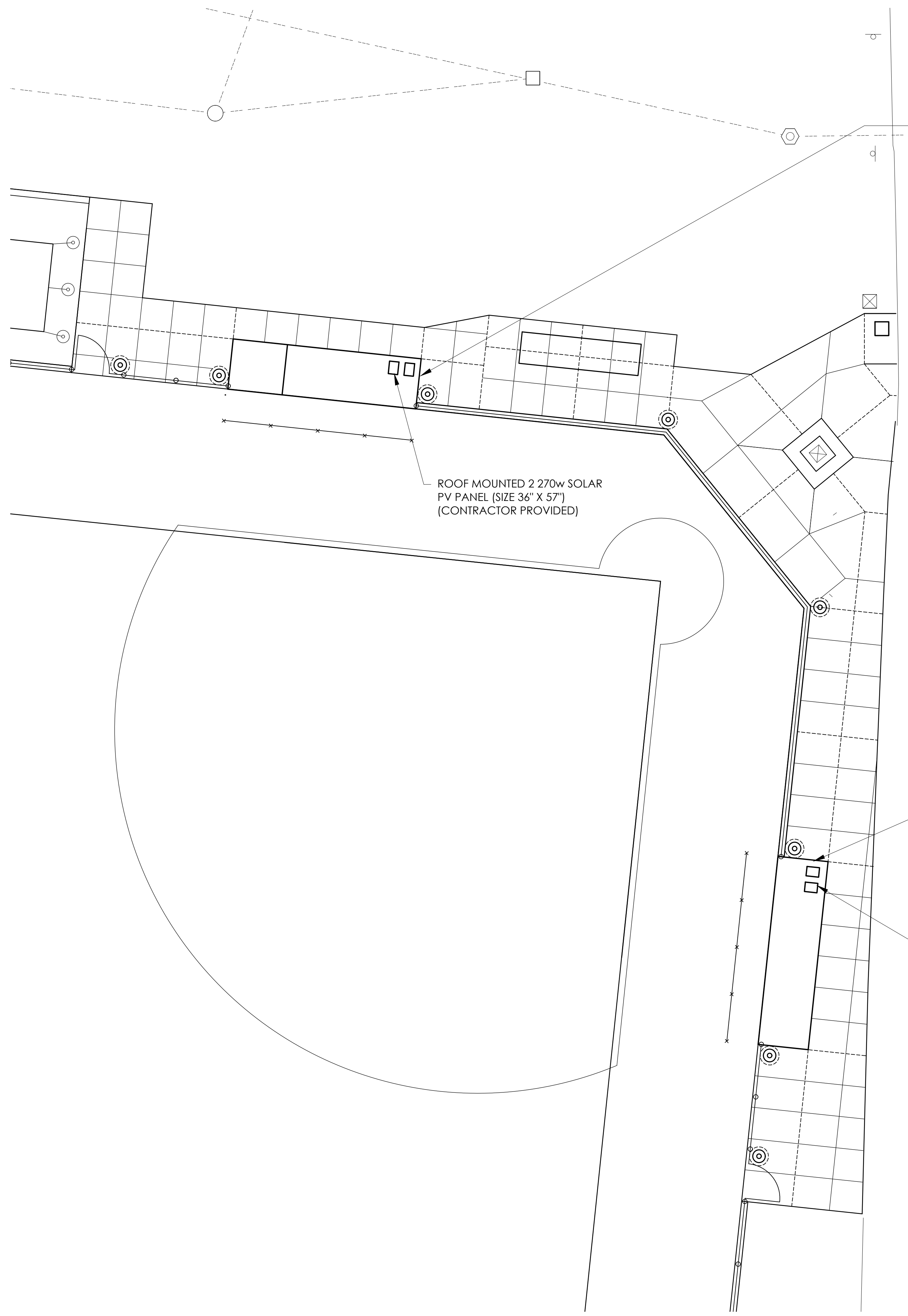
DATE: 9/20/2023
 JOB NO.: 21-8112
 DRAWN BY: JF
 CHECKED BY: TS
 DRAWING TITLE:
 PLANITNG DETAILS

SHEET NO.:
LP-500
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ISSUED FOR BIDDING

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D
C
B
A



PORTABLE POWER STATION 2000 w (BLUETTI AC200P) OR EQUAL TO BE POWER INTERIOR DUGOUT ROOF MOUNTED SECURITY LIGHTS (2 PER DUGOUT) & EXTERIOR DUGOUT WALL MOUNTED GFI CHARGING RECEPTACLES (2 PER DUGOUT). (CONTRACTOR PROVIDED)

PORTABLE POWER STATION TO BE HOUSED WITHIN UNHEATED, INSULATED FIBERGLASS ENCLOSURE MOUNTED ON INTERIOR DUGOUT WALL (AVG 1824 BY HOT BOX) OR EQUAL (CONTRACTOR PROVIDED)

ROOF MOUNTED 2 270w SOLAR PV PANEL (SIZE 36" X 57") (CONTRACTOR PROVIDED)

PORTABLE POWER STATION 2000 w (BLUETTI AC200P) OR EQUAL TO BE POWER INTERIOR DUGOUT ROOF MOUNTED SECURITY LIGHTS (2 PER DUGOUT) & EXTERIOR DUGOUT WALL MOUNTED GFI CHARGING RECEPTACLES (2 PER DUGOUT). (CONTRACTOR PROVIDED)

PORTABLE POWER STATION TO BE HOUSED WITHIN UNHEATED, INSULATED FIBERGLASS ENCLOSURE MOUNTED ON INTERIOR DUGOUT WALL (AVG 1824 BY HOT BOX) OR EQUAL (CONTRACTOR PROVIDED)

ROOF MOUNTED 2 270w SOLAR PV PANEL (SIZE 36" X 57") (CONTRACTOR PROVIDED)

CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR OWNER REVIEW.



LEMONT PARK DISTRICT
2023 MIRACLE FIELD OSLAD
RE-DEVELOPMENT
 16028 127th Street
 Lemont, IL 60439



1167 Hobson Mill Drive
 Naperville, Illinois 60540
 Telephone: (630) 606-0776
 www.design-perspectives.net

In association with



650 E. Algonquin Road
 Suite 250
 Schaumburg, IL 60173
 Telephone: (847) 756 - 4180
 www.rtmec.com
 Design Firm: 184006777-0002

REV.	COMMENT	DATE

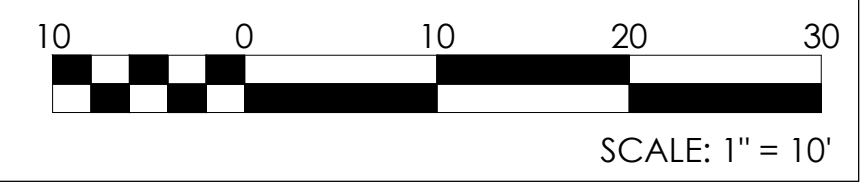
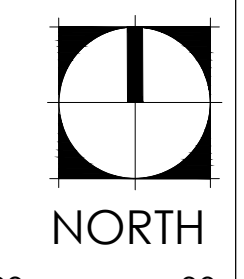
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DATE: 9/20/2023
 JOB NO.: 21-8112
 DRAWN BY: JF
 CHECKED BY: TS

DRAWING TITLE:
ELECTRICAL SCHEMATIC

SHEET NO.:
E-1



ISSUED FOR BIDDING

SYMBOL AND LINE LEGEND

	VALVE VAULT	— W —	WATERMAIN PIPE
	WATER 8-BOX	— > —	STORM SEWER PIPE
	WATER VALVE BOX	— > > —	STORM UNDERDRAIN
	FIRE HYDRANT	—) —	SANITARY SEWER PIPE
	WELL HEAD	— IRR —	IRRIGATION SLEEVE/PIPING
	FIRE DEPARTMENT CONNECTION	— E —	ELECTRICAL DUCT BANK
	STORM INLET	— G —	NATURAL GAS LINE
	STORM MANHOLE	— COM —	COMMUNICATIONS LINE
	CATCH BASIN	— CWS —	CHILLED WATER SUPPLY
	STORM CLEANOUT	— CWR —	CHILLED WATER RETURN
	DOWNSPOUT	— TV —	TELEVISION CABLE
	FLARED END SECTION	— UGW —	UNDERGROUND WIRE
	SANITARY MANHOLE	— T —	TELEPHONE CABLE
	SANITARY CLEANOUT	— FO —	FIBER OPTIC CABLE
	LIGHT POLE	— A —	AERIAL WIRES
	TELEPHONE MANHOLE	— — — — —	CONSTRUCTION LIMITS
	POWER POLE	— — — — —	PROPERTY LINE
	GAS VALVE	— — — — —	EASEMENT LINE
	GAS METER	— — — — —	VENT LINE
	HAND HOLE	— HWL —	HIGH WATER LINE
	MAIL BOX	— NWL —	NORMAL WATER LINE
	ELECTRICAL MANHOLE	— ○ —	CHAIN LINK FENCE
	CABLE TV PEDESTAL	— X —	BARBED-WIRE FENCE
	TELEPHONE PEDESTAL	— □ —	WOODEN FENCE
	TRAFFIC OR STREET SIGN	— // —	SILT FENCE
	SOIL BORING		DECIDUOUS TREE
	21.56 SPOT ELEVATION		SHRUB OR BUSH
	SURFACE FLOW		EVERGREEN TREE
	100-YEAR OVERFLOW		

FINAL ENGINEERING PLANS

MIRACLE FIELD - CENTENNIAL PARK 16028 W 127TH ST, LEMONT, IL

OWNER INFORMATION

LEMONT PARK DISTRICT
 CONTACT: JASON KHUEN
 EMAIL: jkhuen@lemontparks.org
 PHONE: (630) 257-6787 x3024
 ADDRESS: 16028 127TH ST., Lemont, IL 60439

BENCHMARKS

- SOURCE BENCHMARK:
 NGS MONUMENT WITH PID DM3898 BEING A FLANGE ENCASED STEEL ROD
 (SEE NGS DATA SHEET FOR A MORE DETAILED DESCRIPTION)
 ELEVATION = 716.90 NAVD 88
- SITE BENCHMARK # 1:
 SQUARE CUT ON NORTHEAST SIDE OF CONCRETE BASE OF LIGHT POLE, 1.5' S'LY OF THE S'LY EDGE OF A ASPHALT
 PATH RUNNING ALONG THE SOUTHERLY RIM OF THE STORMWATER BASIN IN THE SW'LY AREA OF THE CENTENNIAL
 PARK APPROXIMATELY 21' SW'LY OF A 14" TREE AT THE SW'LY RIM OF BASIN AND N'LY OF THE PATH.
 ELEVATION = 748.96 NAVD 88
- SITE BENCHMARK # 2:
 S.O.S. CONTROL POINTS 200; A CUT CROSS ON N'LY SIDE OF CONCRETE WALK APPROXIMATELY 20' W'LY OF BIKE
 RACK SW'LY OF PLAYGROUND AREA N'LY OF BASEBALL FIELD.
 ELEVATION = 752.87 NAVD 88

NOTES

1. PLAN BACKGROUND AND UTILITIES AREA BASED UPON THE PLAT OF TOPOGRAPHIC SURVEYS PREPARED BY SIGHT ON SOLUTIONS, INC., WHICH WERE PROVIDED TO RTM ENGINEERING CONSULTANTS. RTM ENGINEERING CONSULTANTS ASSUME NO RESPONSIBILITY FOR THEIR ACCURACY OR THOROUGHNESS.
2. PLANS BASED UPON GEOTECHNICAL ENGINEERING REPORT PREPARED BY SOIL AND MATERIAL CONSULTANTS, INC., DATED JUNE 26, 2023. CONTRACTOR SHALL FOLLOW FOR ALL EARTHWORK OPERATIONS.
3. SITE ACCESS CONTROL INCLUDING SAFETY FENCES AND TRAFFIC CONTROL, ALL CONSTRUCTION MEANS AND METHODS, AND SITE SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE CONTRACTORS SHALL NOTIFY ALL UTILITY COMPANIES FOR FIELD LOCATIONS OF THEIR FACILITIES PRIOR TO BEGINNING CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE MAINTENANCE AND PRESERVATION OF THESE FACILITIES. ALL UTILITIES SHOWN IN THE PLANS ARE FROM RECORDS OR FIELD OBSERVABLE IN FORMATION LOCATED BY SURVEYOR. ANY UTILITY LOCATIONS SHOWN SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD.

DUTY TO INDEMNIFY

THE CONTRACTOR SHALL DEFEND, INDEMNIFY, KEEP AND SAVE HARMLESS THE MUNICIPALITY, OWNER, AND ENGINEER, AND THEIR RESPECTIVE BOARD MEMBERS, REPRESENTATIVES, AGENTS AND EMPLOYEES, IN BOTH INDIVIDUAL AND OFFICIAL CAPACITIES, AGAINST ALL SUITS, CLAIMS, DAMAGES, LOSSES AND EXPENSES, INCLUDING ATTORNEY'S FEES, CAUSED BY, GROWING OUT OF, OR INCIDENTAL TO, THE PERFORMANCE OF THE WORK UNDER THE CONTRACT BY THE CONTRACTOR OR ITS SUBCONTRACTORS TO THE FULL EXTENT AS ALLOWED BY THE LAWS OF THE STATE OF ILLINOIS AND NOT BEYOND ANY EXTENT WHICH WOULD RENDER THESE PROVISIONS VOID OR UNENFORCEABLE. THIS OBLIGATION INCLUDES BUT IS NOT LIMITED TO, THE ILLINOIS LAWS REGARDING STRUCTURAL WORK (IL REV. STAT. CH. 48, PAR. 60 AT SEQ.), AND REGARDING THE PROTECTION OF ADJACENT LANDOWNERS (IL REV. STAT. CH.17 1/2 PAR.51 ET. SEQ.), IN THE EVENT OF ANY SUCH INJURY (INCLUDING DEATH) OR LOSS OR DAMAGE, OR CLAIMS THEREFORE, THE CONTRACTOR SHALL GIVE PROMPT NOTICE TO THE OWNER.

Sheet Number	Sheet Title
C0.0	COVER SHEET
C0.1	SPECIFICATIONS
C0.2	MWRD NOTES
C1.0	EXISTING CONDITIONS & DEMOLITION
C2.0	SITE GEOMETRIC PLAN
C3.0	SUBGRADE & UTILITY PLAN
C4.0	GRADING PLAN
C5.0	STORMWATER POLLUTION PREVENTION PLAN
C5.1	SWPPP NOTES
C5.2	SWPPP DETAILS
C6.0	DETAILS
C6.1	DETAILS
C7.0	MWRD DRAINAGE EXHIBIT
C7.1	MWRD MAINTENANCE PLAN

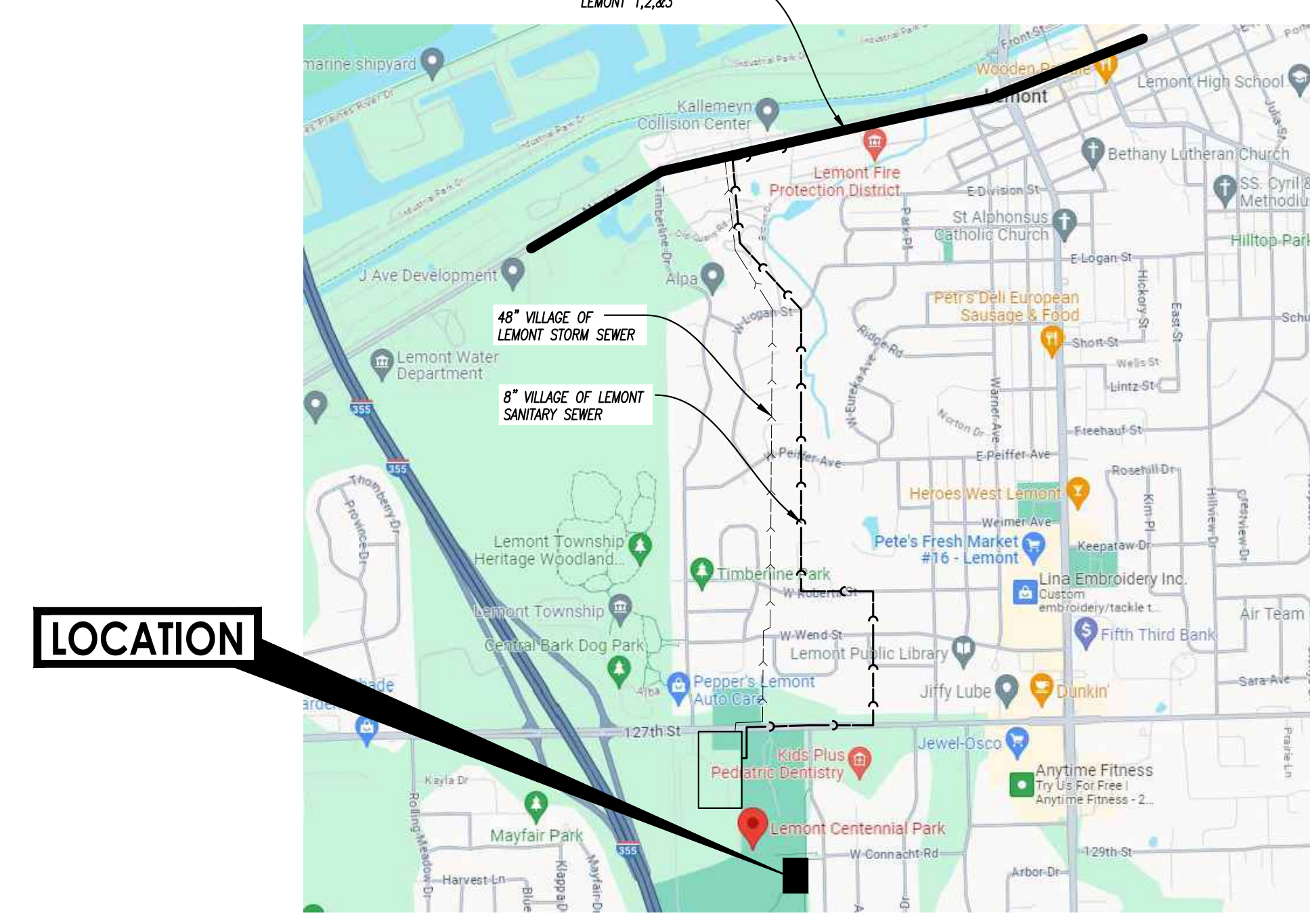
CONTACT THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO 2 DAYS BEFORE STARTING WORK.

P (708) 588-4055
 E WMOJobStart@mwrdd.org

SURFACE DRAINAGE STATEMENT:

TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE DRAINAGE OF SURFACE WATERS WILL NOT BE CHANGED BY THE PROPOSED DEVELOPMENT. IF ANY DRAINAGE PATTERNS WILL BE CHANGED, REASONABLE PROVISIONS HAVE BEEN MADE FOR THE COLLECTION AND DIVERSION OF SUCH SURFACE WATERS INTO THE PUBLIC AREA, OR DRAINS APPROVED FOR THE USE BY THE MUNICIPAL ENGINEER, AND THAT SUCH SURFACE WATERS ARE PLANNED FOR IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING PRACTICES SO AS TO REDUCE THE LIKELIHOOD OF DAMAGES TO ADJOINING PROPERTIES.

MWRD INTERCEPTOR MAP



Sheets C0.0 to C7.1 were prepared at or under the direction of:

ILLINOIS REGISTERED PROFESSIONAL ENGINEER No. 062-055027
 MATTHEW D. WHISLER
 LICENSE EXPIRES: 11/30/2023
 SIGNED: 09/20/2023



Know what's below.
 Call before you dig.

CALL 48 HOURS BEFORE YOU DIG WITH THE FOLLOWING INFORMATION

COUNTY NAME: COOK
 TOWNSHIP, RANGE: 37N, 11E
 SECTION NUMBER: 31

No.	DATE	DESCRIPTION
07/08/23		VILLAGE REVIEW
07/13/23		SUBMIT TO MWRD
07/20/23		ISSUE FOR BID

650 E. Algonquin Road
 Suite 250
 Schaumburg, IL 60193
 Telephone: (630) 756-4180
 www.rtm.com

rtm
 engineering consultants

IL Design Firm: 18,068777-0002

COVER SHEET

PROJECT NAME: MIRACLE FIELD - CENTENNIAL PARK
 PROJECT No.: 23.DESP.C02
 SHEET No.: C0.0
 1 OF 14 SHEETS

SHEET NAME: 16028 W 127TH ST, LEMONT, IL

User: mckennamintz File: J:\2023\DESP\046\1174\Miracle Field\09 DESIGN DRAWINGS\02 SHEETS\23.DESP.C02 COVER.dwg Time: Sep 19, 2023 - 4:39pm

User: mcdemco.mnt File: J:\2023\DESIGN\0496\1776\Misc\Fields\09\DESIGN\DRAWINGS\02-SHEETS\23\DESIGN\023-SPEC\023-SPEC.dwg Time: Sep 19, 2023 - 4:49pm

A. REFERENCED SPECIFICATIONS

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING, EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
 - * STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (LATEST EDITION), BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT SS) FOR ALL IMPROVEMENTS EXCEPT SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 - * STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION (SSWS) FOR SANITARY SEWER AND WATER MAIN CONSTRUCTION;
 - * VILLAGE OF LEMONT MUNICIPAL CODE;
 - * THE METROPOLITAN WATER RECLAMATION DISTRICT OF GREATER CHICAGO (MWRD) WATERSHED MANAGEMENT ORDINANCE AND TECHNICAL GUIDANCE MANUAL;
 - * IN CASE OF CONFLICT BETWEEN THE APPLICABLE ORDINANCES NOTED, THE MORE STRINGENT SHALL TAKE PRECEDENCE AND SHALL CONTROL ALL CONSTRUCTION.

B. NOTIFICATIONS

1. THE MWRD LOCAL SEWER SYSTEMS SECTION FIELD OFFICE MUST BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO THE COMMENCEMENT OF ANY WORK (CALL 708-588-4055 OR SEND EMAIL NOTIFICATION WITH PROJECT NAME, LOCATION AND PERMIT NUMBER TO WMOJOBSTART@MWRD.ORG).
2. THE VILLAGE OF LEMONT ENGINEERING DEPARTMENT AND PUBLIC MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION AND PRIOR TO EACH PHASE OF WORK. CONTRACTOR SHALL DETERMINE ITEMS REQUIRING INSPECTION PRIOR TO START OF CONSTRUCTION OR EACH WORK PHASE.
3. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO BEGINNING CONSTRUCTION FOR THE EXACT LOCATIONS OF UTILITIES AND FOR THEIR PROTECTION DURING CONSTRUCTION. IF EXISTING UTILITIES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, IMMEDIATELY NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED. CALL J.U.L.I.E. AT 1-800-892-0123.

C. GENERAL NOTES

1. ALL ELEVATIONS SHOWN ON PLANS REFERENCE THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88). CONVERSION FACTOR IS 0 FT.
2. MWRD, THE MUNICIPALITY AND THE OWNER OR OWNER'S REPRESENTATIVE SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
3. THE CONTRACTOR(S) SHALL INDEMNIFY THE OWNER, ENGINEER, MUNICIPALITY, MWRD, AND THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, OR TESTING OF THIS WORK ON THE PROJECT.
4. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY MWRD AND THE MUNICIPALITY UNLESS CHANGES ARE APPROVED BY MWRD, THE MUNICIPALITY, OR AUTHORIZED AGENT. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THE IMPROVEMENTS INDICATED ON THE PLANS.
5. THE LOCATION OF VARIOUS UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. VERIFY LOCATIONS AND ELEVATIONS PRIOR TO BEGINNING THE CONSTRUCTION OPERATIONS.
6. ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAY, ETC., DAMAGED DURING CONSTRUCTION OPERATIONS AND NOT CALLED FOR TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
7. MATERIAL AND COMPACTION TESTING SHALL BE PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE MUNICIPALITY, MWRD, AND OWNER.
8. THE UNDERGROUND CONTRACTOR SHALL MAKE ALL NECESSARY ARRANGEMENTS TO NOTIFY ALL INSPECTION AGENCIES.
9. ALL NEW AND EXISTING UTILITY STRUCTURES ON SITE AND IN AREAS DISTURBED DURING CONSTRUCTION SHALL BE ADJUSTED TO FINISH GRADE PRIOR TO FINAL INSPECTION.
10. RECORD DRAWINGS SHALL BE KEPT BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER AS SOON AS UNDERGROUND IMPROVEMENTS ARE COMPLETED. FINAL PAYMENTS TO THE CONTRACTOR SHALL BE HELD UNTIL THEY ARE RECEIVED. ANY CHANGES IN LENGTH, LOCATION OR ALIGNMENT SHALL BE SHOWN IN RED. ALL WYES OR BENDS SHALL BE LOCATED FROM THE DOWNSTREAM MANHOLE. ALL VALVES, B-BOXES, TEES OR BENDS SHALL BE TIED TO A FIRE HYDRANT.

D. SANITARY SEWER

1. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY POLLUTED WATER, SUCH AS GROUND AND SURFACE WATER, FROM ENTERING THE EXISTING SANITARY SEWERS.
2. A WATER-TIGHT PLUG SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION. THE PLUG SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE MUNICIPALITY AND/OR MWRD AFTER THE SEWERS HAVE BEEN TESTED AND ACCEPTED.
3. DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OF LINES FOR THE DEFLECTION TEST SHALL BE PROHIBITED WITHOUT PRIOR APPROVAL FROM THE MUNICIPALITY OR MWRD.
4. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS (LATEST EDITION).
5. ALL FLOOR DRAINS SHALL DISCHARGE TO THE SANITARY SEWER SYSTEM.
6. ALL DOWNSPOUTS AND FOOTING DRAINS SHALL DISCHARGE TO THE STORM SEWER SYSTEM.
7. ALL SANITARY SEWER PIPE MATERIALS AND JOINTS (AND STORM SEWER PIPE MATERIALS AND JOINTS IN A COMBINED SEWER AREA) SHALL CONFORM TO THE FOLLOWING:

VITRIFIED CLAY PIPE	ASTM C-700	ASTM C-425
REINFORCED CONCRETE SEWER PIPE	ASTM C-76	ASTM C-443
CAST IRON SOIL PIPE	ASTM A-74	ASTM C-564
DUCTILE IRON PIPE	ANSI A21.51	ANSI A21.11
POLYVINYL CHLORIDE (PVC) PIPE 6-INCH TO 15-INCH DIAMETER SDR 26 18-INCH TO 27-INCH DIAMETER F/DY=46	ASTM D-3034 ASTM F-679	ASTM D-3212 ASTM D-3212
HIGH DENSITY POLYETHYLENE (HDPE)	ASTM D-3350 ASTM D-3035	ASTM D-3261,F-2620 (HEAT FUSION) ASTM D-3212,F-477 (GASKETED)
WATER MAIN QUALITY PVC 4-INCH TO 36-INCH 4-INCH TO 12-INCH 14-INCH TO 48-INCH	ASTM D-2241 AWWA C900 AWWA C905	ASTM D-3139 ASTM D-3139 ASTM D-3139

THE FOLLOWING MATERIALS ARE ALLOWED ON A QUALIFIED BASIS SUBJECT TO DISTRICT REVIEW AND APPROVAL PRIOR TO PERMIT ISSUANCE. A SPECIAL CONDITION WILL BE ADDED TO THE PERMIT WHEN THE PIPE MATERIAL BELOW IS USED FOR SEWER CONSTRUCTION OR A CONNECTION IS MADE.

PIPE MATERIAL	PIPE SPECIFICATIONS	JOINT SPECIFICATIONS
POLYPROPYLENE (PP) PIPE		
12-INCH TO 24-INCH DOUBLE WALL	ASTM F-2736	D-3212, F-477
30-INCH TO 60-INCH TRIPLE WALL	ASTM F-2764	D3212, F-477

8. ALL SANITARY SEWER CONSTRUCTION (AND STORM SEWER CONSTRUCTION IN COMBINED SEWER AREAS), REQUIRES STONE BEDDING WITH STONE 1/4" TO 1" IN SIZE, WITH MINIMUM BEDDING THICKNESS EQUAL TO 1/4 THE OUTSIDE DIAMETER OF THE SEWER PIPE, BUT NOT LESS THAN FOUR (4) INCHES NOR MORE THAN EIGHT (8) INCHES. MATERIAL SHALL BE CA-7, CA-11 OR CA-13 AND SHALL BE EXTENDED AT LEAST 12" ABOVE THE TOP OF THE PIPE WHEN USING PVC.
9. NON-SHEAR FLEXIBLE-TYPE COUPLINGS SHALL BE USED IN THE CONNECTION OF SEWER PIPES OF DISSIMILAR PIPE MATERIALS.
10. ALL MANHOLES SHALL BE PROVIDED WITH BOLTED, WATERTIGHT COVERS. SANITARY LIDS SHALL BE CONSTRUCTED WITH A CONCEALED PICKHOLE AND WATERTIGHT GASKET WITH THE WORD "SANITARY" CAST INTO THE LID.
11. WHEN CONNECTING TO AN EXISTING SEWER MAIN BY MEANS OTHER THAN AN EXISTING WYE, TEE, OR AN EXISTING MANHOLE, ONE OF THE FOLLOWING METHODS SHALL BE USED:
 - a) A CIRCULAR SAW-CUT OF SEWER MAIN BY PROPER TOOLS ("SEWER-TAP" MACHINE OR SIMILAR) AND PROPER INSTALLATION OF HUBWYE SADDLE OR HUB-TEE SADDLE.
 - b) REMOVE AN ENTIRE SECTION OF PIPE (BREAKING ONLY THE TOP OF ONE BELL) AND REPLACE WITH A WYE OR TEE BRANCH SECTION.
 - c) WITH PIPE CUTTER, NEATLY AND ACCURATELY CUT OUT DESIRED LENGTH OF PIPE FOR INSERTION OF PROPER FITTING, USING "BAND SEAL" OR SIMILAR COUPLINGS TO HOLD IT FIRMLY IN PLACE.
12. WHENEVER A SANITARY/COMBINED SEWER CROSSES UNDER A WATERMAIN, THE MINIMUM VERTICAL DISTANCE FROM THE TOP OF THE SEWER TO THE BOTTOM OF THE WATERMAIN SHALL BE 18 INCHES. FURTHERMORE, A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN SANITARY/COMBINED SEWERS AND WATERMANS SHALL BE MAINTAINED UNLESS: THE SEWER IS LAID IN A SEPARATE TRENCH, KEEPING A MINIMUM 18" VERTICAL SEPARATION; OR THE SEWER IS LAID IN THE SAME TRENCH WITH THE WATERMAIN LOCATED AT THE OPPOSITE SIDE ON A BENCH OF UNDISTURBED EARTH, KEEPING A MINIMUM 18" VERTICAL SEPARATION. IF EITHER THE VERTICAL OR HORIZONTAL DISTANCES DESCRIBED CANNOT BE MAINTAINED, OR THE SEWER CROSSES ABOVE THE WATER MAIN, THE SEWER SHALL BE CONSTRUCTED TO WATER MAIN STANDARDS OR IT SHALL BE ENCASED WITH A WATER MAIN QUALITY CARRIER PIPE WITH THE ENDS SEALED.
13. ALL EXISTING SEPTIC SYSTEMS SHALL BE ABANDONED. ABANDONED TANKS SHALL BE FILLED WITH GRANULAR MATERIAL OR REMOVED.
14. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES, AND SHALL BE CAST IN PLACE OR PRE-CAST REINFORCED CONCRETE.
15. ALL SANITARY MANHOLES, (AND STORM MANHOLES IN COMBINED SEWER AREAS), SHALL HAVE PRECAST "RUBBER BOOTS" THAT CONFORM TO ASTM C-923 FOR ALL PIPE CONNECTIONS. PRECAST SECTIONS SHALL CONSIST OF MODIFIED GROOVE TONGUE AND RUBBER GASKET TYPE JOINTS.
16. ALL ABANDONED SANITARY SEWERS SHALL BE PLUGGED AT BOTH ENDS WITH AT LEAST 2 FEET LONG NON-SHRINK CONCRETE OR MORTAR PLUG.
17. EXCEPT FOR FOUNDATION/FOOTING DRAINS PROVIDED TO PROTECT BUILDINGS, OR PERFORATED PIPES ASSOCIATED WITH VOLUME CONTROL FACILITIES, DRAIN TILES/FIELD TILES/UNDERDRAINS/PERFORATED PIPES ARE NOT ALLOWED TO BE CONNECTED TO OR TRIBUTARY TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS IN COMBINED SEWER AREAS. CONSTRUCTION OF NEW FACILITIES OF THIS TYPE IS PROHIBITED; AND ALL EXISTING DRAIN TILES AND PERFORATED PIPES ENCOUNTERED WITHIN THE PROJECT AREA SHALL BE PLUGGED OR REMOVED, AND SHALL NOT BE CONNECTED TO COMBINED SEWERS, SANITARY SEWERS, OR STORM SEWERS TRIBUTARY TO COMBINED SEWERS.
18. A BACKFLOW PREVENTER IS REQUIRED FOR ALL DETENTION BASINS TRIBUTARY TO COMBINED SEWERS. REQUIRED BACKFLOW PREVENTERS SHALL BE INSPECTED AND EXERCISED ANNUALLY BY THE PROPERTY OWNER TO ENSURE PROPER OPERATION, AND ANY NECESSARY MAINTENANCES SHALL BE PERFORMED TO ENSURE FUNCTIONALITY. IN THE EVENT OF A SEWER SURCHARGE INTO AN OPEN DETENTION BASIN TRIBUTARY TO COMBINED SEWERS, THE PERMITTEE SHALL ENSURE THAT CLEAN UP AND WASH OUT OF SEWAGE TAKES PLACE WITHIN 48 HOURS OF THE STORM EVENT.

1. THE CONTRACTOR SHALL INSTALL THE EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE APPROVED EROSION AND SEDIMENT CONTROL PLAN.
2. EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL PRIOR TO HYDROLOGIC DISTURBANCE OF THE SITE.
3. ALL DESIGN CRITERIA, SPECIFICATIONS, AND INSTALLATION OF EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
4. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. INSPECTIONS AND DOCUMENTATION SHALL BE PERFORMED, AT A MINIMUM:
 - a) UPON COMPLETION OF INITIAL EROSION AND SEDIMENT CONTROL MEASURES, PRIOR TO ANY SOIL DISTURBANCE.
 - b) ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT WITH GREATER THAN 0.5 INCH OF RAINFALL OR LIQUID EQUIVALENT PRECIPITATION.
6. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. IF STRIPPING, CLEARING, GRADING, OR LANDSCAPING ARE TO BE DONE IN PHASES, THE CO-PERMITTEE SHALL PLAN FOR APPROPRIATE SOIL EROSION AND SEDIMENT CONTROL MEASURES.
7. A STABILIZED MAT OF CRUSHED STONE MEETING THE STANDARDS OF THE ILLINOIS URBAN MANUAL SHALL BE INSTALLED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE. SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
8. CONCRETE WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL AND SHALL BE INSTALLED PRIOR TO ANY ON SITE CONSTRUCTION ACTIVITIES INVOLVING CONCRETE.
9. MORTAR WASHOUT FACILITIES SHALL BE CONSTRUCTED IN ADDITION TO CONCRETE WASHOUT FACILITIES FOR ANY BRICK AND MORTAR BUILDING ENVELOPE CONSTRUCTION ACTIVITIES.
10. TEMPORARY DIVERSIONS SHALL BE CONSTRUCTED AS NECESSARY TO DIRECT ALL RUNOFF FROM HYDROLOGICALLY DISTURBED AREAS TO AN APPROPRIATE SEDIMENT TRAP OR BASIN. VOLUME CONTROL FACILITIES SHALL NOT BE USED AS TEMPORARY SEDIMENT BASINS.
11. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) DAYS.
12. ALL FLOOD PROTECTION AREAS AND VOLUME CONTROL FACILITIES SHALL, AT A MINIMUM, BE PROTECTED WITH A DOUBLE-ROW OF SILT FENCE (OR EQUIVALENT).
13. VOLUME CONTROL FACILITIES SHALL NOT BE CONSTRUCTED UNTIL ALL OF THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED.
14. SOIL STOCKPILES SHALL, AT A MINIMUM, BE PROTECTED WITH PERIMETER SEDIMENT CONTROLS. SOIL STOCKPILES SHALL NOT BE PLACED IN FLOOD PROTECTION AREAS OR THEIR BUFFERS.
15. EARTHEN EMBANKMENT SIDE SLOPES SHALL BE STABILIZED WITH APPROPRIATE EROSION CONTROL BLANKET.
16. STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY APPROPRIATE SEDIMENT CONTROL MEASURES.
17. THE CONTRACTOR SHALL EITHER REMOVE OR REPLACE ANY EXISTING DRAIN TILES AND INCORPORATE THEM INTO THE DRAINAGE PLAN FOR THE DEVELOPMENT. DRAIN TILES CANNOT BE TRIBUTARY TO A SANITARY OR COMBINED SEWER. DRAIN TILES ALLOWED IN COMBINED SEWER AREA FOR GREEN INFRASTRUCTURE PRACTICES.
18. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION. DEWATERING SYSTEMS SHOULD BE INSPECTED DAILY DURING OPERATIONAL PERIODS. THE SITE INSPECTOR MUST BE PRESENT AT THE COMMENCEMENT OF DEWATERING ACTIVITIES.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRENCH DEWATERING AND EXCAVATION FOR THE INSTALLATION OF SANITARY SEWERS, STORM SEWERS, WATERMANS AS WELL AS THEIR SERVICES AND OTHER APPURTENANCES. ANY TRENCH DEWATERING, WHICH CONTAINS SEDIMENT SHALL PASS THROUGH A SEDIMENT SETTLING POND OR EQUALLY EFFECTIVE SEDIMENT CONTROL DEVICE. ALTERNATIVES MAY INCLUDE DEWATERING INTO A SUMP PIT, FILTER BAG OR EXISTING VEGETATED UPSLOPE AREA. SEDIMENT LADEN WATERS SHALL NOT BE DISCHARGE TO WATERWAYS, FLOOD PROTECTION AREAS OR THE COMBINED SEWER SYSTEM.
20. ALL PERMANENT EROSION CONTROL PRACTICES SHALL BE INITIATED WITHIN SEVEN (7) DAYS FOLLOWING THE COMPLETION OF SOIL DISTURBING ACTIVITIES.
21. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED AND REPAIRED AS NEEDED ON A YEAR-ROUND BASIS DURING CONSTRUCTION AND ANY PERIODS OF CONSTRUCTION SHUTDOWN UNTIL PERMANENT STABILIZATION IS ACHIEVED.
22. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER PERMANENT SITE STABILIZATION.
23. THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER, SITE INSPECTOR, OR MWRD.

TECHNICAL GUIDANCE MANUAL

MWRD GENERAL NOTES

10/13/2022

STD. DWG. NO.18

PAGE NO. 19

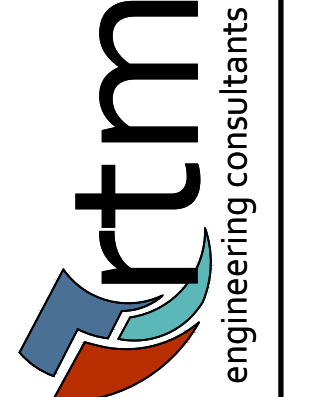
SHEET NAME

MIRACLE FIELD - CENTENNIAL PARK
16028 W 127TH ST
LEMONT, IL

PROJECT No.
23.DESP.C02
SHEET No.

C0.2
3 OF 14 SHEETS

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DESCRIPTION

DATE

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DESCRIPTION

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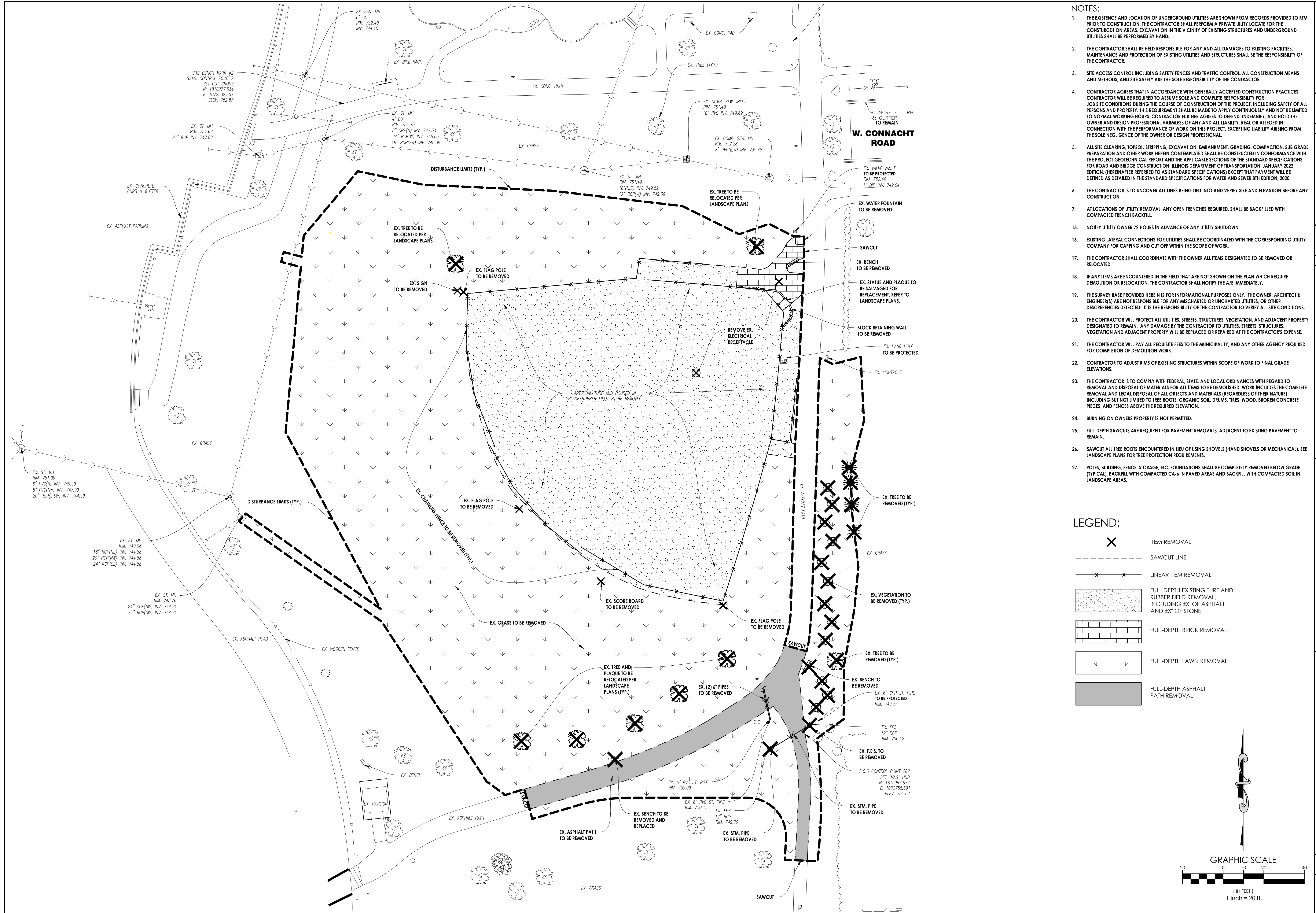
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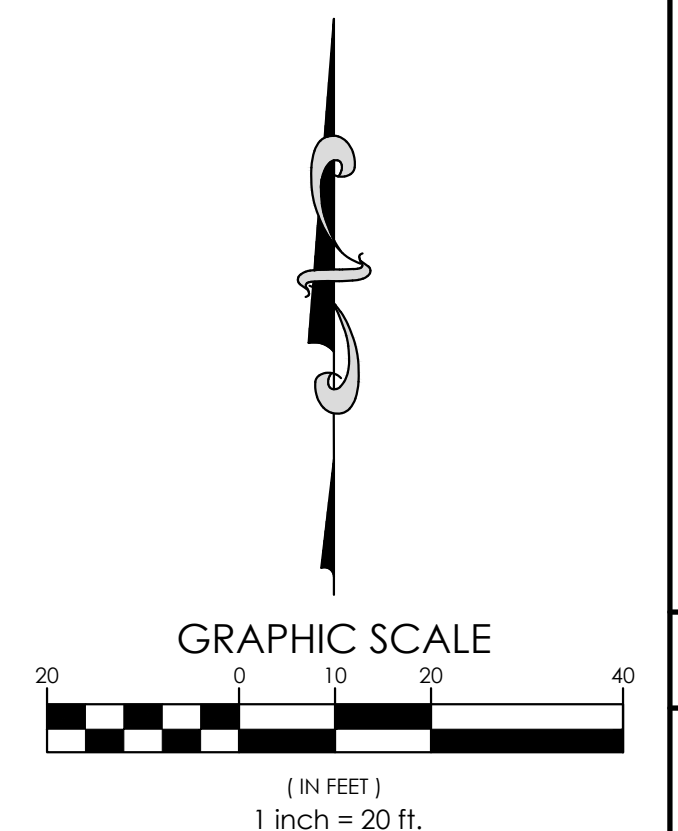
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- NOTES:**
- THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES ARE SHOWN FROM RECORDS PROVIDED TO RIM. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PERFORM A PRIVATE UTILITY LOCATE FOR THE CONSTRUCTION AREAS. EXCAVATION IN THE VICINITY OF EXISTING STRUCTURES AND UNDERGROUND UTILITIES SHALL BE PERFORMED BY HAND.
 - THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING FACILITIES, MAINTENANCE AND PROTECTION OF EXISTING UTILITIES AND STRUCTURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
 - SITE ACCESS CONTROL INCLUDING SAFETY FENCES AND TRAFFIC CONTROL. ALL CONSTRUCTION MEANS AND METHODS, AND SITE SAFETY ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY. THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY, AND HOLD THE OWNER AND DESIGN PROFESSIONAL HARMLESS OF ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR DESIGN PROFESSIONAL.
 - ALL SITE CLEARING, TOPSOIL STRIPPING, EXCAVATION, EMBANKMENT, GRADING, COMPACTION, SUB GRADE PREPARATION AND OTHER WORK HEREIN CONTEMPLATED SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE PROJECT GEOTECHNICAL REPORT AND THE APPLICABLE SECTIONS OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, (ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 2022 EDITION, (HEREINAFTER REFERRED TO AS STANDARD SPECIFICATIONS) EXCEPT THAT PAYMENT WILL BE DEFINED AS DETAILED IN THE STANDARD SPECIFICATIONS FOR WATER AND SEWER 8TH EDITION, 2020.
 - THE CONTRACTOR IS TO UNCOVER ALL LINES BEING TIED INTO AND VERIFY SIZE AND ELEVATION BEFORE ANY CONSTRUCTION.
 - AT LOCATIONS OF UTILITY REMOVAL, ANY OPEN TRENCHES REQUIRED, SHALL BE BACKFILLED WITH COMPACTED TRENCH BACKFILL.
 - NOTIFY UTILITY OWNER 72 HOURS IN ADVANCE OF ANY UTILITY SHUTDOWN.
 - EXISTING LATERAL CONNECTIONS FOR UTILITIES SHALL BE COORDINATED WITH THE CORRESPONDING UTILITY COMPANY FOR CAPPING AND CUT OFF WITHIN THE SCOPE OF WORK.
 - THE CONTRACTOR SHALL COORDINATE WITH THE OWNER ALL ITEMS DESIGNATED TO BE REMOVED OR RELOCATED.
 - IF ANY ITEMS ARE ENCOUNTERED IN THE FIELD THAT ARE NOT SHOWN ON THE PLAN WHICH REQUIRE DEMOLITION OR RELOCATION, THE CONTRACTOR SHALL NOTIFY THE A/E IMMEDIATELY.
 - THE SURVEY BASE PROVIDED HEREIN IS FOR INFORMATIONAL PURPOSES ONLY. THE OWNER, ARCHITECT & ENGINEER(S) ARE NOT RESPONSIBLE FOR ANY MISCHARTERED OR UNCHARTERED UTILITIES, OR OTHER DISCREPANCIES DETECTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL SITE CONDITIONS.
 - THE CONTRACTOR WILL PROTECT ALL UTILITIES, STREETS, STRUCTURES, VEGETATION, AND ADJACENT PROPERTY DESIGNATED TO REMAIN. ANY DAMAGE BY THE CONTRACTOR TO UTILITIES, STREETS, STRUCTURES, VEGETATION AND ADJACENT PROPERTY WILL BE REPLACED OR REPAIRED AT THE CONTRACTOR'S EXPENSE.
 - THE CONTRACTOR WILL PAY ALL REQUISITE FEES TO THE MUNICIPALITY, AND ANY OTHER AGENCY REQUIRED, FOR COMPLETION OF DEMOLITION WORK.
 - CONTRACTOR TO ADJUST RIMS OF EXISTING STRUCTURES WITHIN SCOPE OF WORK TO FINAL GRADE ELEVATIONS.
 - THE CONTRACTOR IS TO COMPLY WITH FEDERAL, STATE, AND LOCAL ORDINANCES WITH REGARD TO REMOVAL AND DISPOSAL OF MATERIALS FOR ALL ITEMS TO BE DEMOLISHED. WORK INCLUDES THE COMPLETE REMOVAL AND LEGAL DISPOSAL OF ALL OBJECTS AND MATERIALS (REGARDLESS OF THEIR NATURE) INCLUDING BUT NOT LIMITED TO TREE ROOTS, ORGANIC SOIL, DRUMS, TIRES, WOOD, BROKEN CONCRETE PIECES, AND FENCES ABOVE THE REQUIRED ELEVATION.
 - BURNING ON OWNERS PROPERTY IS NOT PERMITTED.
 - FULL DEPTH SAWCUTS ARE REQUIRED FOR PAVEMENT REMOVALS, ADJACENT TO EXISTING PAVEMENT TO REMAIN.
 - SAWCUT ALL TREE ROOTS ENCOUNTERED IN LIEU OF USING SHOVELS (HAND SHOVELS OR MECHANICAL). SEE LANDSCAPE PLANS FOR TREE PROTECTION REQUIREMENTS.
 - POLES, BUILDING, FENCE, STORAGE, ETC. FOUNDATIONS SHALL BE COMPLETELY REMOVED BELOW GRADE (TYPICAL). BACKFILL WITH COMPACTED CA-6 IN PAVED AREAS AND BACKFILL WITH COMPACTED SOIL IN LANDSCAPE AREAS.

- LEGEND:**
- X ITEM REMOVAL
 - SAWCUT LINE
 - x-x- LINEAR ITEM REMOVAL
 - [Pattern] FULL DEPTH EXISTING TURF AND RUBBER FIELD REMOVAL, INCLUDING ±" OF ASPHALT AND ±" OF STONE.
 - [Pattern] FULL-DEPTH BRICK REMOVAL
 - [Pattern] FULL-DEPTH LAWN REMOVAL
 - [Pattern] FULL-DEPTH ASPHALT PATH REMOVAL



NO.	DATE	DESCRIPTION
07/08/23		VILLAGE REVIEW
07/13/23		SUBMIT TO TOWN
07/20/23		ISSUE FOR BID

PROJECT No. **23.DESP.C02**
 SHEET No. **C1.0**
 4 OF 14 SHEETS

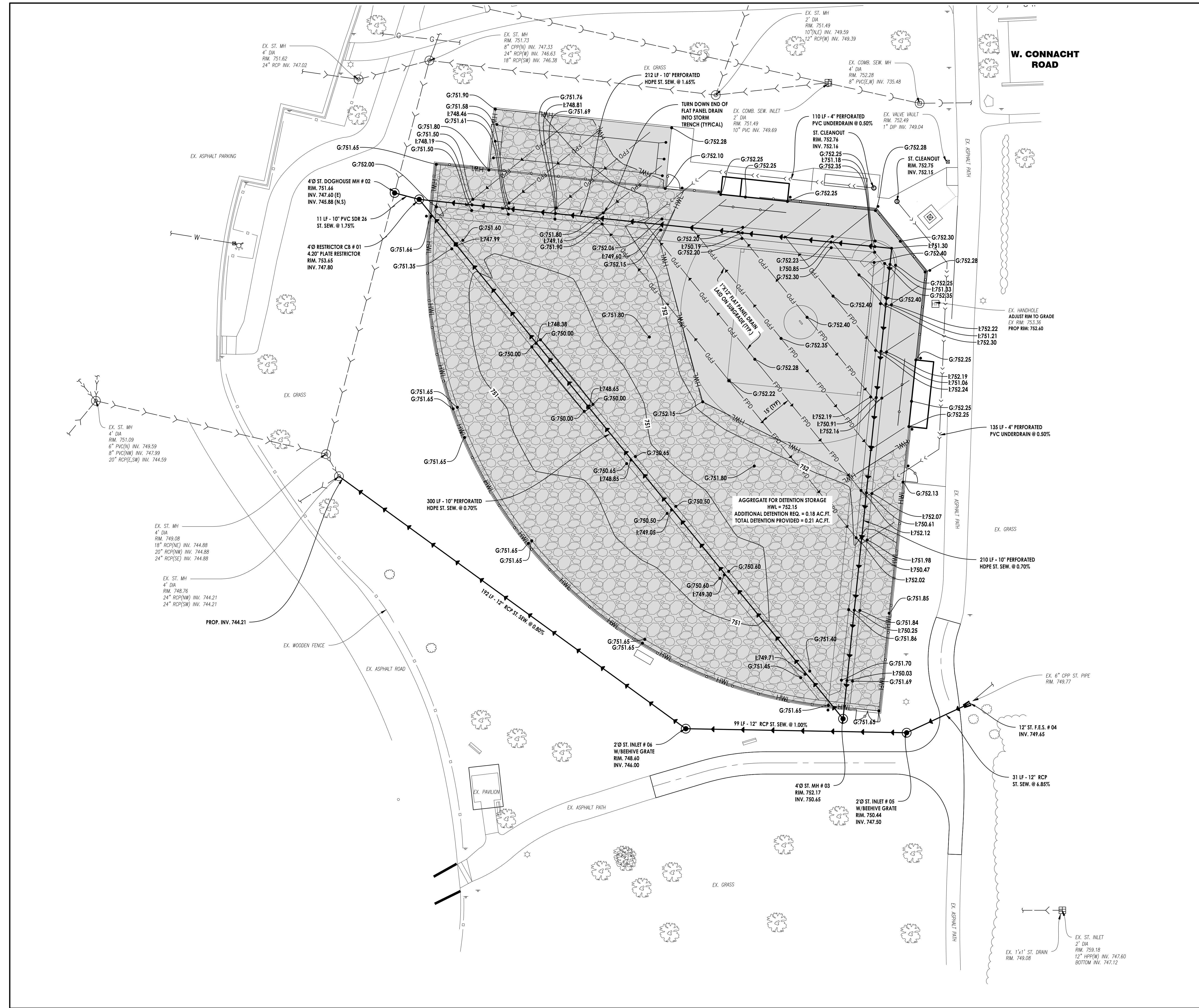
SHEET NAME: **MIRACLE FIELD - CENTENNIAL PARK**
 PROJECT NAME: **MIRACLE FIELD - CENTENNIAL PARK**
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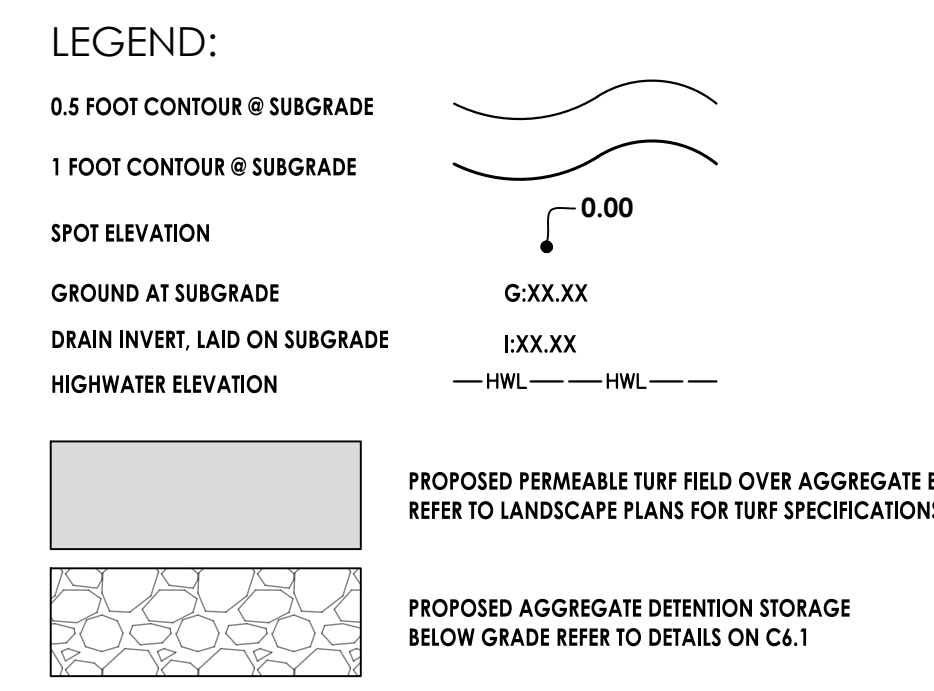
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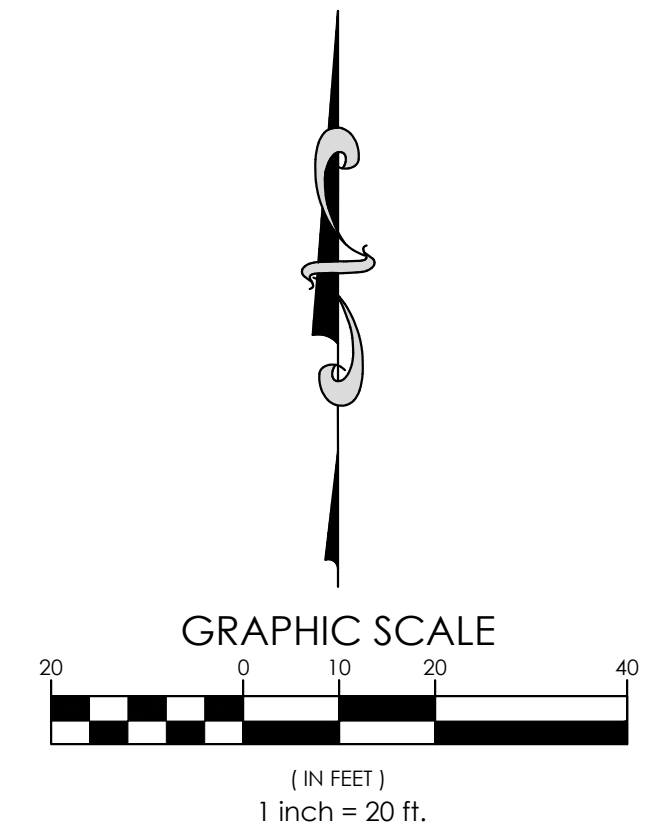


- NOTES:**
- EX. ITEMS SHALL BE FIELD VERIFIED. RELOCATION OR ADJUSTMENT MAY BE NEEDED. CONTRACTOR TO VERIFY.
 - CONTRACTOR SHALL VERIFY ALL WORK, INCLUDING BUT NOT LIMITED TO, SIZES, MATERIALS AND LOCATION, WITH UTILITY COMPANIES PRIOR TO INSTALLATION.
 - VERIFY SERVICE LOCATIONS WITH LANDSCAPE PLANS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
 - SEE SPECIFICATIONS SHEET FOR ALL STORM PIPE AND STRUCTURE SPECIFICATIONS.
 - ALL UTILITY DIMENSIONS ARE FROM CENTER OF UTILITY AND TO BACK OF CURB WHEN TIED TO CURB LINES, UNLESS OTHERWISE NOTED.
 - CONTRACTOR TO INSPECT EXISTING SEWER AT POINT OF CONNECTION. CONTRACTOR TO VERIFY THAT EXISTING PIPE IS IN GOOD WORKING CONDITION. CONTRACTOR TO REPAIR AS REQUIRED.
 - CONTRACTOR TO NOTIFY OWNER/ENGINEER IF CONFLICTS OCCUR.



ADDITIONAL CONTRACTOR AS-BUILT APPROVAL REQUIREMENTS

- THE CONTRACTOR IS REQUIRED TO PROVIDE AN AS-BUILT DRAWING OF THE FINAL SUBGRADE PRIOR TO BACKFILL OF THE AGGREGATE. AS-BUILT SPOT ELEVATIONS, PREPARED BY AN ILLINOIS REGISTERED LAND SURVEYOR, SHALL BE PROVIDED ON A SIGNED & SEALED DRAWING, AS WELL AS AN AUTOCAD CIVIL 3D DWG FILE TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL PRIOR TO PLACING OF ANY STONE. STONE PLACEMENT PRIOR TO SUBGRADE APPROVAL IS AT THE CONTRACTOR'S RISK.
- THE CONTRACTOR IS REQUIRED TO PROVIDE AN AS-BUILT DRAWING OF THE FINE GRADED AGGREGATE FINAL SURFACE, PRIOR TO TURNOVER TO THE SYNTHETIC TURF MANUFACTURER. AS-BUILT SPOT ELEVATIONS, PREPARED BY AN ILLINOIS REGISTERED LAND SURVEYOR, SHALL BE PROVIDED ON A SIGNED & SEALED DRAWING, AS WELL AS AN AUTOCAD CIVIL 3D DWG FILE TO THE ARCHITECT/ENGINEER FOR REVIEW AND APPROVAL.



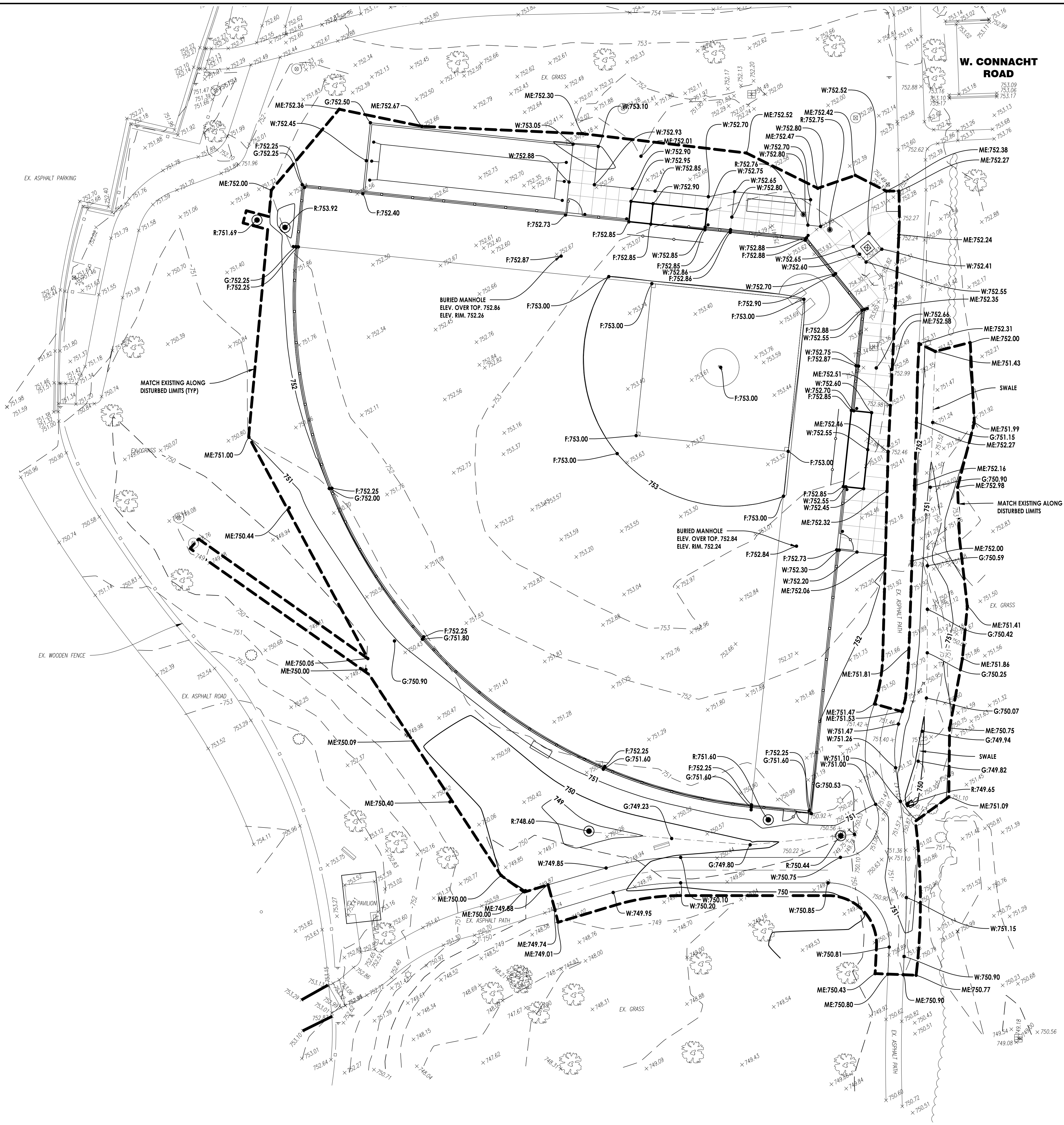
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07/20/23		ISSUE FOR BID

PROJECT NAME	MIRACLE FIELD - CENTENNIAL PARK
PROJECT No.	23.DESP.C02
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SHEET NAME	SUBGRADE & UTILITY PLAN
PROJECT NAME	MIRACLE FIELD - CENTENNIAL PARK
PROJECT No.	23.DESP.C02
SHEET No.	C3.0
6 OF 14 SHEETS	

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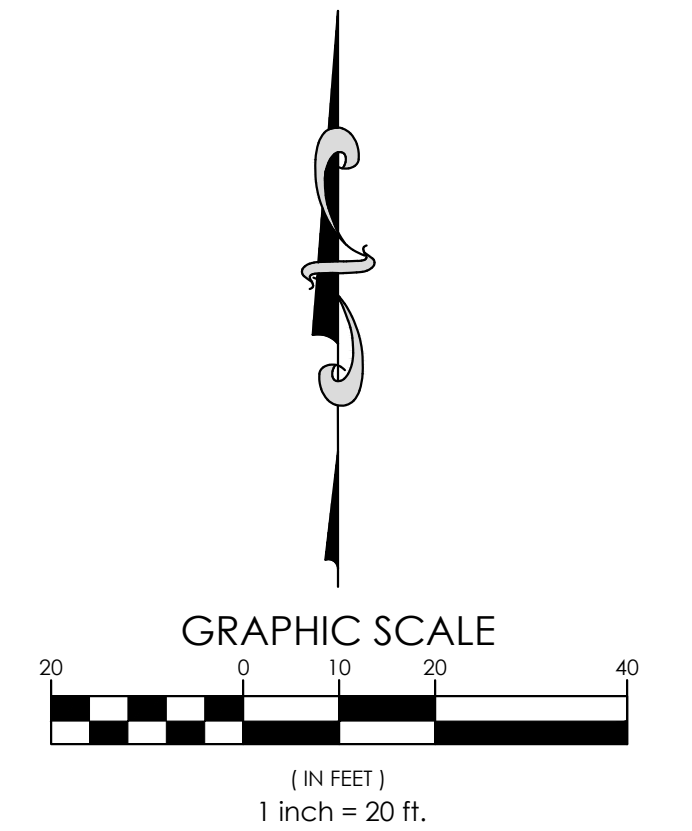


NOTES:

1. PROPOSED ELEVATIONS SHOWN ON PROPOSED CURB LINES ARE FLOW LINE ELEVATIONS UNLESS NOTED OTHERWISE. ADD 0.50' TO OBTAIN TOP OF CURB ELEVATIONS.
2. A CONSTANT SLOPE SHALL BE MAINTAINED BETWEEN SPOT GRADES.
3. 2% MINIMUM SLOPE AND 3:1 MAXIMUM SLOPE IN TURF AREAS AND 1% MINIMUM SLOPE AND 5% MAXIMUM SLOPE IN PAVED AREAS.
4. RIM GRADES ALONG CURBS ARE FLOW LINE ELEVATIONS.
5. TOPOGRAPHIC AND BOUNDARY SURVEY PREPARED BY SIGHT ON SOLUTIONS, INC.

LEGEND:

	EXISTING	PROPOSED
1 FOOT CONTOUR		
5 FOOT CONTOUR		
GRADE		
RIDGE LINE		
TOP OF CURB		C:XX.XX
TOP OF WALK		W:XX.XX
TOP OF ASPHALT PAVEMENT/PATH		P:XX.XX
FLOW LINE @ DEPRESSION CURB		D:XX.XX
FINISHED TURF INFILL ELEVATION		F:XX.XX
EDGE OF PAVEMENT		E:XX.XX
FINISHED GROUND		G:XX.XX
RIM GRADE		R:XX.XX
MATCH EXISTING		ME:XX.XX
FINISHED FLOOR		FF:XX.XX
FLOW ARROW		
OVERFLOW		



NO.	DATE	DESCRIPTION
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07/13/23		SUBMIT TO MWPD
07/20/23		ISSUE FOR BID

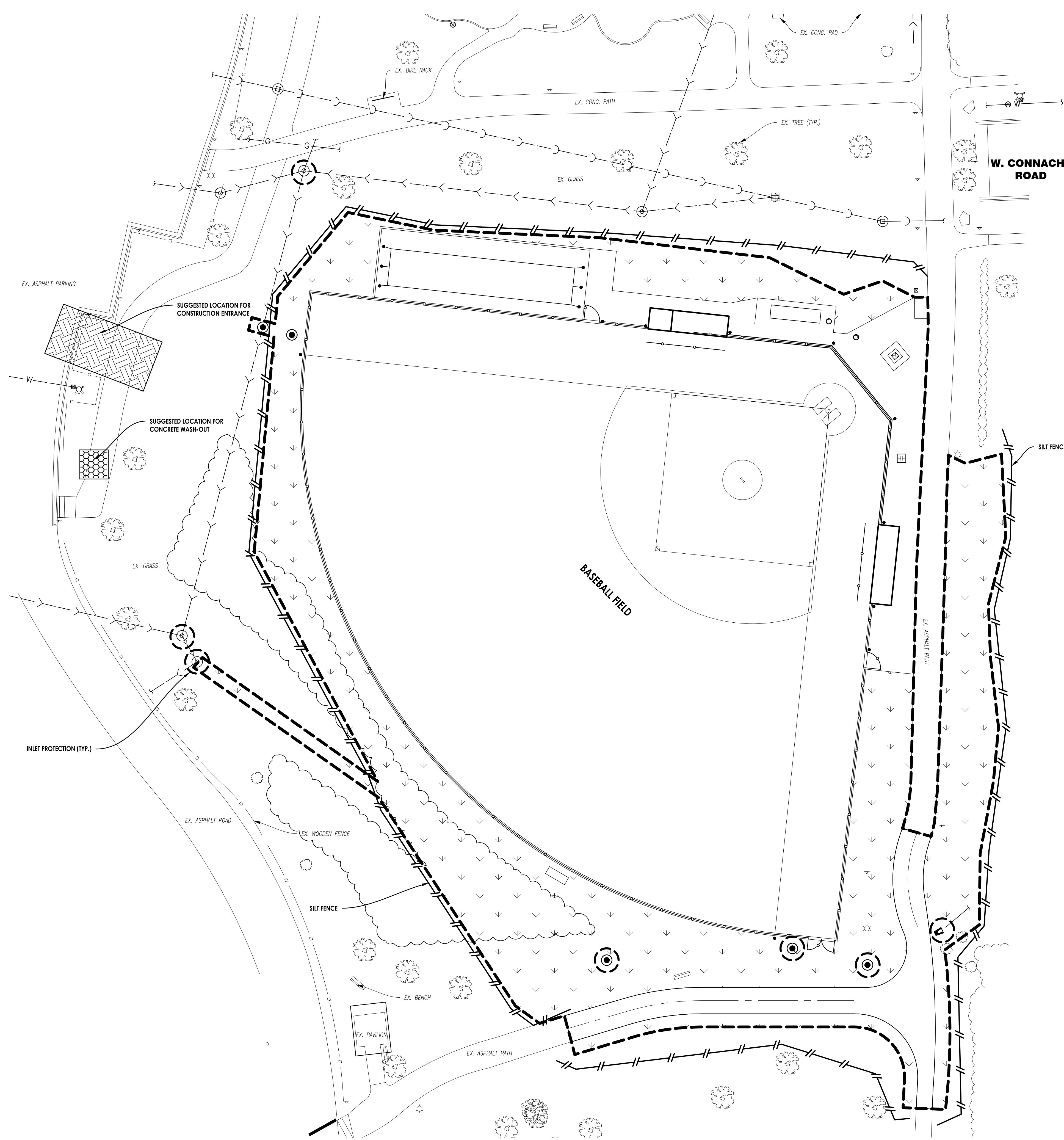
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GRADING PLAN

PROJECT NAME: MIRACLE FIELD - CENTENNIAL PARK
 PROJECT NO.: 23.DESP.C02
 SHEET NO.: C4.0
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 LEMONT, IL
 7 OF 14 SHEETS

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LEGEND

- 20' X 40' CONSTRUCTION ENTRANCE, SEE DETAILS.
- RESTORE PER LANDSCAPE PLANS
- INLET PROTECTION, AND INLET BASKET FILTERS, SEE DETAILS.
- SILT FENCE, SEE DETAILS.
- CATCH BASIN/INLET
- STORM SEWER MANHOLE

- SOIL EROSION AND SEDIMENT CONTROL NOTES:**
1. INLET PROTECTION SHALL BE INSTALLED AT EACH DRAINAGE STRUCTURE THAT ACCEPTS WATER ONCE THAT STRUCTURE IS ABLE TO RECEIVE WATER.
 2. ALL ROADS INCLUDING ADJACENT ROADWAYS, SWALES, DRAINAGE STRUCTURES, MANHOLES AND PIPES MUST BE KEPT CLEAN AND FREE OF DIRT, SILT AND DEBRIS AT ALL TIMES.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD ADJUSTING THE LOCATION OF THE SILT FENCE TO ACCOMMODATE CONSTRUCTION ACTIVITIES. RELOCATED SILT FENCE SHALL BE PLACED TO PREVENT SILT FROM RUNNING OFF THE SITE. SILT FENCE SHALL BE RELOCATED BACK TO ORIGINAL LOCATION AS NECESSARY AFTER CONSTRUCTION ACTIVITY IN THE EFFECTED AREA IS COMPLETED.
 4. AFTER PERMANENT GROUND COVER IS ESTABLISHED THROUGHOUT THE SITE, THE SEDIMENT SHALL BE REMOVED FROM THE UNDERGROUND DETENTION SYSTEM AND ALL STORM SEWER PIPES AND STRUCTURES.

INSPECTION SCHEDULE

1. EROSION CONTROL DEVICES & SWALES SHALL BE MONITORED DAILY.
2. FOREBAY/SEDIMENT TRAPS SHALL BE MONITORED WEEKLY. TRAPPED SEDIMENT SHALL BE REMOVED, RESPREAD, & STABILIZED.
3. VEGETATIVE PLANTINGS (SEEDING, SODDING, ETC.) SHALL BE CHECKED PERIODICALLY TO VERIFY THAT ADEQUATE GROUND COVER IS BEING ESTABLISHED. AREAS OF INSUFFICIENT COVER SHALL BE RESEEDED.
4. REPAIRS TO EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY UPON DISCOVERY.

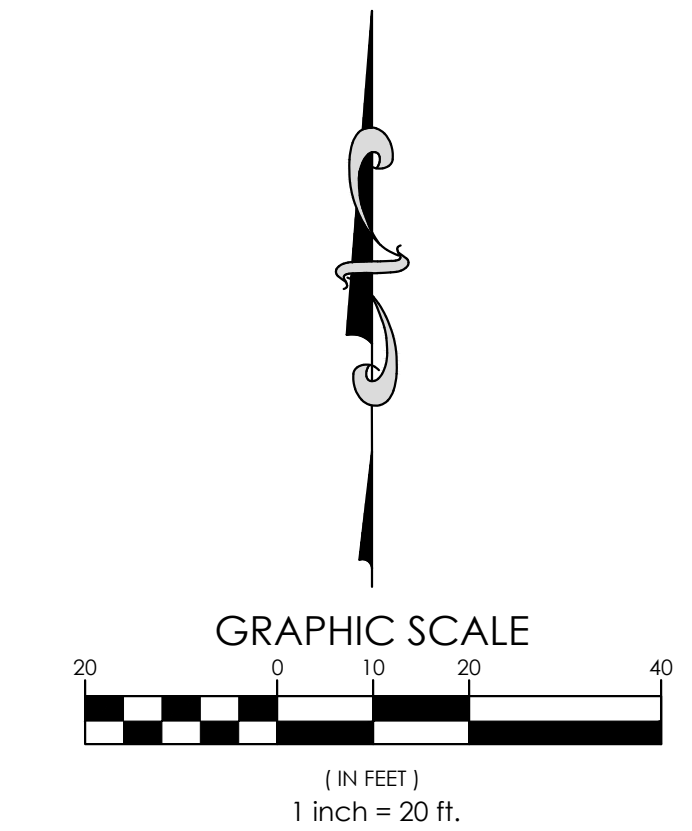
ANTICIPATED CONSTRUCTION SEQUENCE	RESPONSIBLE CONTRACTOR			
	GRADING	UNDERGROUND	PAVING	LANDSCAPE
1. INSTALL SEDIMENT CONTROL DEVICES				
STABILIZED CONSTRUCTION ENTRANCE	X			
SILT FENCE	X			
2. GRADE SITE / STOCK PILE TOPSOIL	X			
SILT FENCE (TOPSOIL STOCKPILES & OPEN SPACE SLOPES)	X			
3. INSTALL STORM WATER MANAGEMENT				
STORM SEWER EXPLORATORY DIG		X		
INLET PROTECTION		X		
4. TEMPORARY VEGETATIVE STABILIZATION				
TEMPORARY SEEDING				X
MULCHING				X
5. SITE WORK - CONCRETE WASHOUT AREA			X	
CURB & GUTTER & PATCHING			X	
AGGREGATE SUBBASE			X	
BAM & BINDER			X	
SIDEWALKS AND CONCRETE PAVEMENT			X	
ASPHALT PATCHES			X	
LANDSCAPE INSTALLATION				X
6. TEMPORARY SEEDING ON ALL AREAS TO BE EXPOSED LONGER THAN 60 DAYS				X
7. SURFACE PARKING LOTS			X	
8. PERMANENT VEGETATIVE STABILIZATION OF EXPOSED AREAS				X
PERMANENT SEEDING				X
SODDING				X
9. PERFORM CONTINUING MAINTENANCE	X	X	X	X

SEEDING SCHEDULE

A KENTUCKY BLUEGRASS 135#/ac. MIXED WITH PERENNIAL RYEGRASS 45#/ac. & 2 TONS STRAW MULCH PER ACRE
 B SPRING OATS 100#/ac.
 C WHEAT OR CEREAL RYE 150#/ac.
 D SALT TOLERANT SOD, PER PROJECT SPECIFICATIONS
 E STRAW MULCH

STABILIZATION	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
DORMANT SEEDING	A									A		
TEMPORARY SEEDING			B				C					
SODDING			D**									
MULCHING	E											

* IRRIGATE AS NECESSARY
 ** IRRIGATE AS NECESSARY TO ESTABLISH SOD



PROJECT NAME: **MIRACLE FIELD - CENTENNIAL PARK**
 SHEET NAME: **STORMWATER POLLUTION PREVENTION PLAN**
 PROJECT No.: **23.DESP.C02**
 SHEET No.: **C5.0**
 8 OF 14 SHEETS

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07/13/23		SUBMIT TO RWRD			
07/20/23		ISSUE FOR BID			

SECTION 1: SITE EVALUATION, ASSESSMENT, AND PLANNING

1.1 PROJECT/SITE INFORMATION

Project/Title Name: Miracle Field Redevelopment
Project Street/Location: 16028 127th street
City: Lemont
State: IL
Zip Code: 60439
County or Similar Subdivision: Cook County

1.2 CONTACT INFORMATION/RESPONSIBLE PARTIES

Owner:
TINLEY PARK - PARK DISTRICT
8125 W 171ST ST
TINLEY PARK, IL 60477S

Operator(s):
TBD
Project Manager(s) or Site Supervisor(s):
TBD
Stormwater Manager and SWPPP Contact(s):
TBD

This SWPPP Was Prepared By:
Matthew D. Whisler, PE
RTM Engineering Consultants, Inc
650 E. Algonquin Road, Suite 250
Schaumburg, IL 60173
312-756-1180
312-713-1003

Emergency 24 hour contact:
TBD

1.3 NATURE AND SEQUENCE OF CONSTRUCTION ACTIVITY

The project involves the reconstruction of existing fields and storm drainage systems.
What is the function of the construction activity? New field

Construction Schedule

- 1. Install perimeter sediment control silt fence
2. Clear & grub existing and demolish existing sitework as required
3. Mass Grading
4. Construction: install new utility structures and piping
5. Install new field
6. Fine grade and permanently stabilize all disturbed areas
7. Remove all sediment controls once disturbance has been permanently stabilized

1.4 SOILS, SLOPES, VEGETATION, AND CURRENT DRAINAGE PATTERNS

Soil types:
• Geotechnical investigations have found the sub-surface soils to be predominately Clay
Drainage Patterns:
• Calumet Sag Channel

Vegetation:
The existing vegetation in the is grass, turf field

1.5 CONSTRUCTION SITE ESTIMATES

The following are estimates of the construction site:
Construction Site Area to be disturbed: 1.61 AC
Percentage impervious area before construction: 0%
SCS Runoff coefficient before construction: 0.50
Percentage impervious area after construction: 5.0%
SCS Runoff coefficient after construction: 0.66

1.6 RECEIVING WATERS

Description of receiving waters: Calumet Sag Channel

1.7 SITE FEATURES AND SENSITIVE AREAS TO BE PROTECTED

- The site does not contain any sensitive areas.

1.8 POTENTIAL SOURCES OF POLLUTION

Potentials sources of sediment to stormwater runoff:
• Clearing and grubbing operations
• Grading and site excavation operations
• Vehicle tracking
• Topsoil stripping and stockpiling
• Landscaping operations

Potential pollutants and sources, other than sediment, to stormwater runoff:
• Vehicle and equipment fueling activities
• Vehicle and equipment maintenance
• Hazardous waste storage
• Material Storage including general building materials, solvents, adhesives, paving materials, paints, aggregates and trash
• Sanitary facilities

SECTION 2: EROSION AND SEDIMENT CONTROL BMPS

2.1 MINIMIZE DISTURBED AREA AND PROTECT NATURAL FEATURES AND SOIL:

BMP Description: Topsoil stripped from the immediate construction area will be stockpiled. The stockpiles will be in areas that will not interfere with construction phases and at least 15 feet away from areas of concentrated flows or pavement. The slopes of the stockpile will be roughened by equipment tracking and will not exceed 2:1 to prevent erosion. A silt fence will be installed around the perimeter of each stockpile, in accordance with the site design specifications in Section 2, Part 2.7. Stockpiles will also be temporarily stabilized with erosion controls as described in Section 2, Part 2.4
• Installation Schedule: Topsoil stockpiles will be established during grading activities. The silt fence and temporary erosion controls will be installed immediately after the stockpile has been established.
• Responsible Staff: General Contractor

2.2 PHASE CONSTRUCTION ACTIVITY:

BMP Description: The contractor shall determine their means for construction phases. An emphasis shall be placed upon minimizing disturbed areas and provided vegetative cover immediately. To minimize potential erosion, only areas necessary to construct the construction exits, access road for the staging area and the sedimentation basin will be disturbed initially. These areas will be cleared, grubbed, and graded and the construction exits, access road and sedimentation basin will be installed. These areas will be stabilized with erosion controls immediately after construction but no later than 14 days after construction.
• Installation Schedule: See Section 1.3 for the timeline of construction activity.
• Responsible Staff: General Contractor

2.3 CONTROL STORMWATER FLOWING ONTO AND THROUGH THE PROJECT:

BMP Description: The site does not currently accept any off-site concentrated flow.

2.4 STABILIZE SOILS:

Temporary Stabilization (Growing Season)
BMP Description: Temporary vegetative cover will be established using hydroseeding, erosion control blanket, or other acceptable means, for areas of exposed soil (including stockpiles) within 1 working day of temporary cessation of earth disturbing activities and shall be complete as soon as possible but no more than 14 days from the in the initiation of the stabilization of work in an area. Seeding will be conducted during periods of the year when vegetation is more likely to be established.
• Installation Schedule: Temporary stabilization measures will be applied to portions of the site within 1 working day of temporary cessation of earth disturbing activities and shall be complete as soon as possible but no more than 14 days from the in the initiation of the stabilization of work in an area.
• Maintenance and Inspection: Stabilized areas will be inspected weekly and after storm events until a dense cover of vegetation has become established. If failure is noticed at the seeded area, the area will be reseeded, fertilized and mulched immediately
• Responsible Staff: General Contractor

Temporary Stabilization (Winter Months)

BMP Description: Hydro mulching, mulching, erosion control blanket, or other acceptable practices, will provide immediate protection to exposed soils within 1 working day of temporary cessation of earth disturbing activities and shall be complete as soon as possible but no more than 14 days from the in the initiation of the stabilization of work in an area and over the winter months.
• Installation Schedule: Winter stabilization will occur between November 15th and March 15th.
• Maintenance and Inspection: Mulched areas will be inspected weekly and after storm events to check for movement of mulch or erosion. If washout, breakage, or erosion occurs, the surface will be repaired, and new mulch will be applied to the damaged area.
• Responsible Staff: General Contractor

Permanent Stabilization

BMP Description: Permanent stabilization will be done within 1 working day of temporary cessation of earth disturbing activities reaching final design grades and shall be complete as soon as possible but no more than 14 days from the initiation of the stabilization of work in an area achieved but no later than 14 days after construction ceases. Native species of plants will be used to establish vegetative cover on exposed soils. Permanent stabilization will be completed in accordance with the final stabilization procedures in Section 7.

- Installation Schedule: Portions of the site where construction activities have permanently ceased will be stabilized, within 1 working day of temporary cessation of earth disturbing activities and shall be complete as soon as possible but no more than 14 days from the in the initiation of the stabilization of work in an area.
• Maintenance and Inspection: All seeded areas will be inspected weekly during construction activities for failure and after storm events until a dense cover of vegetation has been established. If failure is noticed at the seeded area, the area will be reseeded, fertilized, and mulched immediately. After construction is completed at the site, permanently stabilized areas will be monitored until final stabilization is reached.
• Responsible Staff: General Contractor

Dust Control

BMP Description: Dust from the site will be controlled by using a mobile pressure-type distributor truck to apply potable water to disturbed areas. The mobile unit will apply water at a rate of 300 gallons per acre and minimized as necessary to prevent runoff and ponding.

- Installation Schedule: Dust control will be implemented as needed once site grading has been initiated and during windy conditions (forecasted or actual wind conditions of 20 mph or greater) while site grading is occurring. Spraying of potable water will be performed no more than three times a day during the months of May-September and no more than once per day during the months of October-April, if the dryness of the soil warrants it.
• Maintenance and Inspection: At least one mobile unit will be available at all times to distribute potable water to control dust on the project area. Each mobile unit will be equipped with a positive shutoff valve to prevent over watering of the disturbed area. For vehicle and equipment maintenance practices, see Section 3, Part 3.4.
• Responsible Staff: General Contractor

2.5 PROTECT SLOPES:

Geotextile Erosion Control Blankets

BMP Description: Geotextile erosion control blankets will be used to provide stabilization for the slopes greater than 4:1. The blanket will cover the entire area of the graded slope. The side slopes will be seeded and mulched before the blanket is applied. The blanket will be installed by digging a small trench on the upslope of the slope, 12 inches wide by 6 inches deep, and stapling the leading edge of the blanket in the trench. The blanket will be rolled down the slope slowly to maintain contact and stapled in 12-inch intervals. If the blanket cannot cover the entire slope, the blankets will be overlapped (minimum of 2 inches) and stapled at the overlapped edge. The erosion control blanket will always be installed according to the manufacturer's instructions and specifications.

- Installation Schedule: The erosion control blankets will be installed once the slopes have reached final grade.
• Maintenance and Inspection: The erosion control blanket will be inspected weekly and immediately after storm events to determine if cracks, tears, or breaches have formed in the fabric; if so, the blanket will be repaired or replaced immediately. Good contact with the soil must be maintained and erosion should not occur under the blanket. Any areas where the blanket is not in close contact with the ground will be repaired or replaced.
• Responsible Staff: General Contractor

Design Specifications

- Slope surface will be free of rocks, clods, sticks and grass. The blankets will have good soil contact.
2. Lay blankets loosely and staple to maintain direct contact with the soil. Do not stretch.
3. Install per manufacturer's recommendations.

2.6 PROTECT STORM DRAIN INLETS:

Catch Basin Inserts

BMP Description: Immediately following installation of the proposed storm sewer structures, Catch-All catch basin inserts shall be placed below the grates. These catch basin inserts shall be removed once the construction site has been permanently stabilized.
• Installation Schedule: Catch basin inserts shall be installed immediately upon installations of storm structure
• Maintenance and Inspection: The catch basin inserts will be inspected weekly and immediately after storm events. If the basin insert becomes clogged with sediment, the insert will be removed and cleaned or replaced per the manufacturer's recommendations.
• Responsible Staff: General Contractor

2.7 ESTABLISH PERIMETER CONTROLS AND SEDIMENT BARRIERS:

Silt Fence

BMP Description: Silt fences will be installed along the perimeters of the site and around any topsoil stockpile. Silt fences will be installed by excavating a 12-inch-deep trench along the line of proposed installation. Wooden posts supporting the silt fence will be spaced a maximum of 5 feet apart and driven securely into the ground; a minimum of 18 deep. The silt fence will be fastened securely to the wooden posts with wire ties spaced every 24 inches at the top, mid section, and bottom of the wooden post. The bottom edge of the silt fence will extend across the bottom of the trench and the trench will be backfilled and compacted to prevent stormwater and sediment from discharging underneath the silt fence.
• Installation Schedule: Silt fences will be installed before construction begins at the site and around topsoil stockpiles once they have been established. Maintenance and Inspection: The trap will be inspected weekly and after storm events. The trap will be checked for signs of erosion, seepage, and structural damage. The outlet and trash rack will be checked for any damage or obstructions and any damage present will be repaired and obstructions removed. Sediment will be removed and the trap restored to its original dimensions when the sediment has accumulated to one-half the design depth of the trap. The removed sediments will be hauled off-site and disposed of at approved Landfill.
• Responsible Staff: General Contractor

2.8 ESTABLISH STABILIZED CONSTRUCTION EXITS:

Stabilized Construction Exit

BMP Description: Anti-tracking pads consisting of stone over geotextile fabric will be installed at the entrance to the main Road, as identified on plan set, to prevent the off-site transport of sediment by construction vehicles.
• Installation Schedule: The stabilized exit will be installed before construction begins on the site. The stone will remain in place until the subgrade of pavement is installed at the site. The anti-tracking pad will be placed on the pavement and will remain until all areas of the site have been stabilized.
• Maintenance and Inspection: The exits will be inspected weekly and after storm events or heavy use. The exits will be maintained in a condition that will prevent tracking or flowing of sediment onto adjacent roads. This could require adding additional crushed stone to the exit. All sediment tracked, spilled, dropped, or washed onto the Roads will be swept up immediately and hauled off-site for disposal at an approved Landfill. Sediment will be swept from the anti-tracking pad as necessary. If excess sediment has clogged the pad, the exit will be top dressed with new crushed stone. Replacement of the entire pad might be necessary when the pad becomes completely filled with sediment. The pad will be reshaped as needed for drainage and runoff control. Broken road pavement as a result of construction activities on roadways immediately adjacent to the project site will be repaired immediately. The stone anti-tracking pad will be removed before the subgrade of pavement is applied to the parking lot. The removed stone and sediment from the pad will be hauled off-site and disposed of at an approved Landfill.
• Responsible Staff: General Contractor

2.10 ADDITIONAL BMPS:

Street Sweeping

BMP Description: Street sweeping and vacuuming shall be performed on adjacent Roads using a regenerative air sweeper to remove sediments and other contaminants directly from paved areas.
• Installation Schedule: Street sweeping will occur weekly and before forecasted storm events on the adjacent Road(s).
• Maintenance and Inspection: All materials collected during sweeping will be disposed of at an off-site location by the subcontractor.
• Responsible Staff: General Contractor

SECTION 3: GOOD HOUSEKEEPING BMPS

3.1 GOOD HOUSEKEEPING BMPS

Material Handling and Waste Management:

Waste Materials

BMP Description: All waste materials will be collected and disposed of into two metal trash dumpsters in the materials storage area. Dumpsters will be placed away from stormwater conveyances and drains, and meet all federal, state, and municipal regulations. Only trash and construction debris from the site will be deposited in the dumpster. No construction materials will be buried on-site. All personnel will be instructed, during tailgate training sessions, regarding the correct disposal of trash and construction debris. Notices that state these practices will be posted in the office trailer and the individual who manages day-to-day site operations will be responsible for seeing that these practices are followed.
• Installation Schedule: Trash dumpsters will be installed once the materials storage area has been established.
• Maintenance and Inspection: The dumpsters will be inspected weekly and immediately after storm events. The dumpster will be emptied weekly and taken to approved Landfill. If trash and construction debris are exceeding the dumpster's capacity, the dumpsters will be emptied more frequently.
• Responsible Staff: General Contractor

Hazardous Waste Materials

BMP Description: All hazardous waste materials such as oil filters, petroleum products, paint, and equipment maintenance fluids will be stored in structurally sound and sealed shipping containers, within the hazardous materials storage area. Hazardous waste materials will be stored in appropriate and clearly marked containers and segregated from other non-waste materials. Secondary containment will be provided for all waste materials in the hazardous materials storage area and will consist of commercially available spill pallets. Additionally, all hazardous waste materials will be disposed of in accordance with federal, state, and municipal regulations. Hazardous waste materials will not be disposed of into the on-site dumpsters. All personnel will be instructed, during tailgate training sessions, regarding proper procedures for hazardous waste disposal. Notices that state these procedures will be posted in the office trailer and the individual who manages day-to-day site operations will be responsible for seeing that these procedures are followed.

Sanitary Waste

BMP Description: Temporary sanitary facilities (portable toilets) will be provided at the site throughout the construction phase. The toilets will be in the staging area. The portable toilets will be located away from a concentrated flow paths and traffic flow.
• Installation Schedule: The portable toilets will be brought to the site once the staging area has been established.
• Maintenance and Inspection: All sanitary waste will be collected from the portable facilities a minimum of three times per week by a qualified sub-contractor. The portable toilets will be inspected weekly for evidence of leaking holding tanks. Toilets with leaking holding tanks will be removed from the site and replaced with new portable toilets.
• Responsible Staff: General Contractor

3.2 ESTABLISH PROPER BUILDING MATERIAL STAGING AREAS:

Material Storage Area

BMP Description: Construction equipment and maintenance materials will be stored at the combined staging area and materials storage areas. Orange construction fence will be installed around the perimeter to designate the staging and materials storage area.
Non-hazardous building materials such as packaging material (wood, plastic and glass) and construction scrap material (brick, wood, steel, metal scraps and pipe cuttings) will be stored in a separate covered storage facility adjacent to the shipping container. All hazardous-waste materials such as oil filters, petroleum products, paint and equipment maintenance fluids will be stored in structurally sound and sealed containers under cover within the hazardous materials storage area. Very large items, such as framing materials and stockpiled lumber, will be stored in the open in the materials storage area. Such materials will be elevated on wood blocks to minimize contact with runoff.
• Installation Schedule: The materials storage area will be installed after grading and before any infrastructure is constructed on site.
• Maintenance and Inspection: The storage area will be inspected weekly and after storm events. The storage area will be kept clean, well organized and equipped with ample cleanup supplies as appropriate for the materials being stored. Perimeter controls, containment structures, covers and liners will be repaired or replaced as needed to maintain proper functions.
• Responsible Staff: General Contractor

3.3 DESIGNATE WASHOUT AREAS:

Concrete Washout

BMP Description: A designated temporary, above-grade concrete washout area will be constructed, as shown on the site plan, per detail in Appendix I. The temporary concrete washout will be constructed with sufficient quantity and volume to contain all liquid and concrete waste generated by washout operations. The washout area will be lined with plastic sheeting at least 10 mils thick and free of any holes or tears. Signs will be posted marking the location of the washout area to ensure that concrete equipment operators use the proper facility. Concrete pours will not be conducted during or before an anticipated storm event. Concrete mixer trucks and chutes will be washed in the designated area or concrete wastes will be properly disposed of off-site. When the temporary washout area is no longer needed for the construction project, the hardened concrete and materials used to construct the area will be removed and disposed of according to the maintenance section below and the area will be stabilized.
• Installation Schedule: The concrete washout area will be constructed before concrete pours occur at the site.
• Maintenance and Inspection: Inspect equipment/vehicle storage areas and fuel tank weekly and after storm events. Vehicles and equipment will be inspected on each day of use. Leaks will be repaired immediately, or the problem vehicle(s) or equipment will be removed from the project site. Keep ample supply of spill-cleanup materials on-site and immediately clean up spills and dispose of materials properly.
• Responsible Staff: General Contractor

3.5 ALLOWABLE NON-STORMWATER DISCHARGES AND CONTROL EQUIPMENT/VEHICLE WASHING:

BMP Description: All equipment and vehicle washing will be performed off-site.

3.6 SPILL PREVENTION AND CONTROL PLAN:

- Employee Training: All employees will be trained via bi-weekly tailgate sessions.
ii. Vehicle Maintenance: Vehicles and equipment will be maintained off-site. All vehicles and equipment including subcontractor vehicles will be checked for leaking oil and fluids. Vehicles leaking fluids will not be allowed on-site. Drip pans will be placed under all vehicles and equipment that are parked overnight.
iii. Hazardous Material Storage: Hazardous materials will be stored in accordance with Section 3, Part 1 and federal and municipal regulations.
iv. Spill Kits: Spill kits will be within the materials storage area and concrete washout areas.
v. Spills: All spills will be cleaned up immediately upon discovery. Spent absorbent materials and rags will be hauled off-site immediately after the spill is cleaned up for disposal at an approved Landfill. Spills large enough to discharge to surface water will be reported to the National Response Center at 1-800-424-8802.
vi. Material safety data sheets, a material inventory, and emergency contact information will be maintained at the on-site project trailer.
• Installation Schedule: The spill prevention and control procedures will be implemented once construction begins on-site.
• Maintenance and Inspection: All personnel will be instructed, during tailgate training sessions, regarding the correct procedures for spill prevention and control. Notices that state these procedures will be posted in the office trailer, and the individual who manages day-to-day site operations will be responsible for seeing that these procedures are followed.
• Responsible Staff: General Contractor

3.9 ANY ADDITIONAL BMPS:

- No additional BMPS were identified

3.10 ALLOWABLE NON-STORMWATER DISCHARGE MANAGEMENT

Any changes in construction activities that produce other allowable non-stormwater discharges will be identified, and the SWPPP will be amended and the appropriate erosion and sediment control will be implemented.

Water Used to Control Dust

BMP Description: Dust control will be implemented as needed once site grading has been initiated and during windy conditions (forecasted or actual wind conditions of 20 mph or greater) while site grading is occurring. Spraying of potable water at a rate of 300 gallons per acre or less will be performed by a mobile pressure-type distributor truck no more than three times a day during the months of May-September and once per day during the months of October-April or whenever the dryness of the soil warrants it.
• Responsible Staff: General Contractor

Uncontaminated Excavation Dewatering

BMP Description: Water from excavation dewatering measures shall be directed into the sediment basins or filter with filter bags prior to discharging off-site. See Section 2, part 8 for BMP description.
• Responsible Staff: General Contractor

Uncontaminated Water Line & Hydrant Flushing

BMP Description: Uncontaminated water from water line flushing of the site infrastructure will be discharged to the sediment basin, while avoiding any contact with disturbed areas. If water from the line flushing becomes contaminated, the water line will be blocked off and the flush water will be pumped to a tanker truck, which will haul the contaminated water off-site to an approved disposal site.
• Responsible Staff: General Contractor

SECTION 4: (NOT USED)

SECTION 5: INSPECTIONS AND MAINTENANCE

5.1 INSPECTIONS

Qualified personnel (provided by the contractor) shall inspect disturbed areas of the construction site that have not been finally stabilized, structural control measures, and locations where vehicles enter or exit the site at least once every seven calendar days, and within 24 hours of the end of a rainfall event that is 0.5 inches or greater, or equivalent snowfall.
• Disturbed areas and areas used for storage of materials that are exposed to precipitation shall be inspected for evidence of, or the potential for, pollutants entering the drainage system. Erosion and sediment control measures identified in the plan shall be observed to ensure that they are operating correctly. Erosion discharge locations or points are accessible, they shall be inspected to ascertain whether erosion control measures are effective in preventing significant impacts to receiving waters. Locations where vehicles enter or exit the site shall be inspected for evidence of offsite sediment tracking.
• Based on the results of the inspection, necessary pollution prevention measures identified in the plan shall be undertaken as soon as practicable after such inspection. Such modifications shall provide for timely implementation of any changes to the plan with 7 calendar days following the inspection.
• A report summarizing the scope of the inspection, name(s) and qualifications of personnel making the inspection, the date(s) of the inspection, major observations relating to the implementation of the SWPPP, and actions taken in accordance with the NPDES permit shall be made and retained (for at least three years from the date of final stabilization or permit coverage is terminated) as a part of this SWPPP. This report shall be signed in accordance with Part VI.G (Signatory Requirements) of the ILR10 NPDES Permit.
• The contractor shall notify the appropriate Agency Field Operations Section office by email at eia.swmoncomp@illinois.gov, telephone or fax within 24 hours of any incidence of noncompliance for any violation of the storm water pollution prevention plan observed during any inspection conducted, or for violations of any condition of this permit.
• The contractor shall complete and submit within 5 days an "Incidence of Noncompliance" (ION) report for any violation of the SWPPP observed during an inspection conducted, including those not required by the SWPPP. Submission shall be on forms provided by the IEPA and include specific information on the cause of noncompliance, actions which were taken to prevent any further causes of noncompliance, and a statement detailing any environmental impact, which may have resulted from the noncompliance.
• All reports of non-compliance shall be signed by a responsible authority as defined in Part VI.G (Signatory Requirements) of the NPDES Permit NO. ILR10.
• All inspection reports shall be retained at the construction site and kept under Appendix E.

Inspection Personnel: _____ Title: _____
Company/Firm: _____ Qualifications: _____

- Inspection Schedule and Procedures:
i. Describe the inspection schedules and procedures you have developed for your site (include frequency of inspections for each BMP or group of BMPs, indicate when you will inspect, e.g. before/during/after rain events, spot inspections, etc.).
• Inspections of the site will be performed once every 7 days and within 24 hours of the end of a storm event of one-half inch or greater. The inspections will verify that all BMPS required in Sections 2 and 3 are implemented, maintained, and effectively minimizing erosion and preventing stormwater contamination from construction materials. For detailed inspection procedures, see Sections 2 and 3.
ii. Describe the general procedures for correcting problems when they are identified. Include responsible staff and timeframes for making corrections.
• If corrective actions are identified during an inspection, the actions will be addressed by the General Contractor within 24 hours of the report and completed maintenance as soon as possible or before the next storm event.
iii. Attach a copy of the inspection report you will use for your site.

5.2 CORRECTIVE ACTION LOG

Contractor shall maintain corrective action logs in accordance with NPDES ILR10 Permit Requirements.

SECTION 6: RECORDKEEPING

6.1 RECORDKEEPING

Contractor shall provide a 3-ring binder to maintain construction activity, corrective action, inspections and log of changes to the SWPPP records in accordance with NPDES ILR10 Permit Requirements. The 3-ring binder shall be kept in the on-site construction trailer at all times.

6.2 LOG OF CHANGES TO THE SWPPP

Contractor shall maintain a log of changes to the approved SWPPP in accordance with NPDES ILR10 Permit Requirements.

SECTION 7: FINAL STABILIZATION

Permanent Seeding

BMP Description: Permanent seeding will be applied immediately after the final design grades are achieved on portions of the site but no later than 14 days after construction activities have permanently ceased. After the entire site is stabilized, any sediment that has accumulated will be removed and hauled off-site for disposal at an approved Landfill. Construction debris, trash and temporary BMPs (including silt fences, material storage areas, sanitary toilets, and inlet protection) will also be removed and any areas disturbed during removal will be seeded immediately. Basins will be planted per the Civil Engineering plans. The remainder of the site will be seeded at the rates and species documented in the Project Specifications.
• Installation Schedule: Portions of the site where construction activities have permanently ceased will be stabilized, as soon as possible but no later than 14 days after construction ceases.
• Maintenance and Inspection: All seeded areas will be inspected weekly during construction activities for failure and after storm events until a dense cover of vegetation has been established. If failure is noticed at the seeded area, the area will be reseeded, fertilized, and mulched immediately. After construction is completed at the site, permanently stabilized areas will be monitored until final stabilization is reached.
• Responsible Staff: General Contractor

SECTION 8: CERTIFICATION AND NOTIFICATION

THIS PLAN HAS BEEN PREPARED TO COMPLY WITH THE PROVISIONS OF THE NPDES PERMIT NUMBER ILR10, ISSUED BY THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY FOR STORM WATER DISCHARGES FROM CONSTRUCTION SITE ACTIVITIES

OWNER'S CERTIFICATION

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION. THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE (OWNER'S REPRESENTATIVE) _____ DATE _____
TITLE _____

CONTRACTOR'S CERTIFICATION

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

SIGNATURE _____ TITLE _____
COMPANY _____ ADDRESS _____
24 HOUR TELEPHONE NUMBER _____ DATE _____

SUB-CONTRACTOR'S CERTIFICATION

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

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24 HOUR TELEPHONE NUMBER _____ DATE _____

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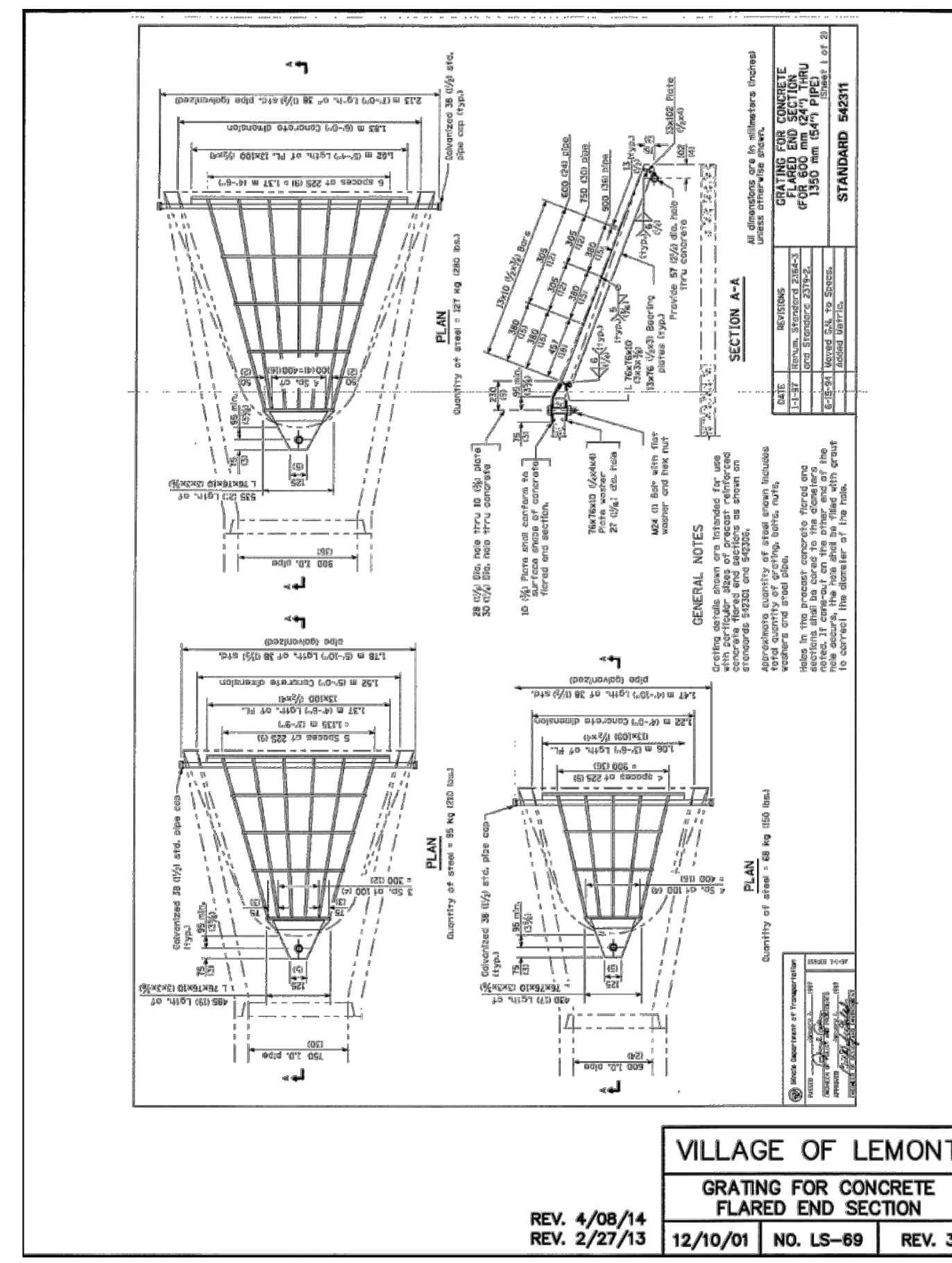
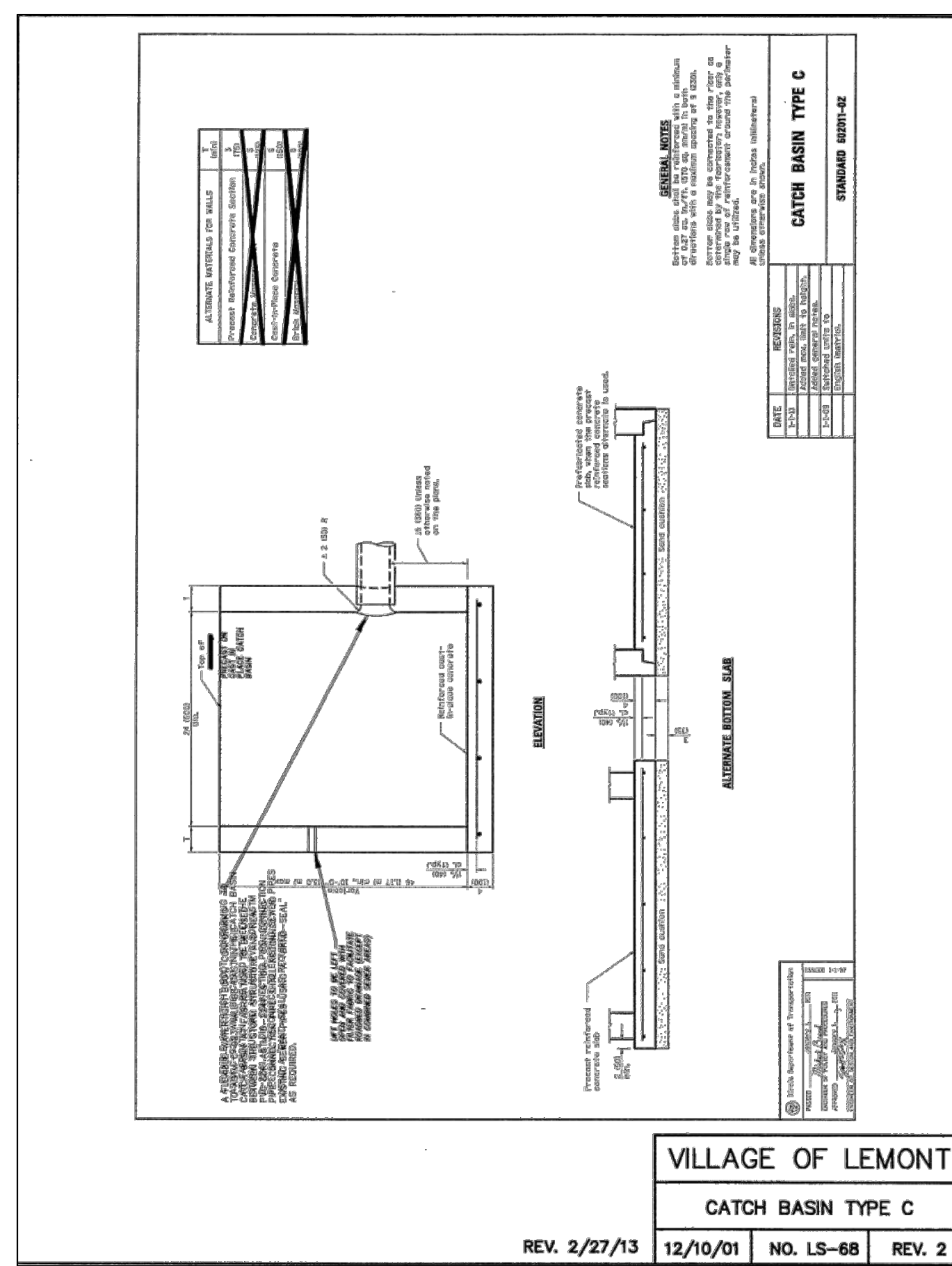
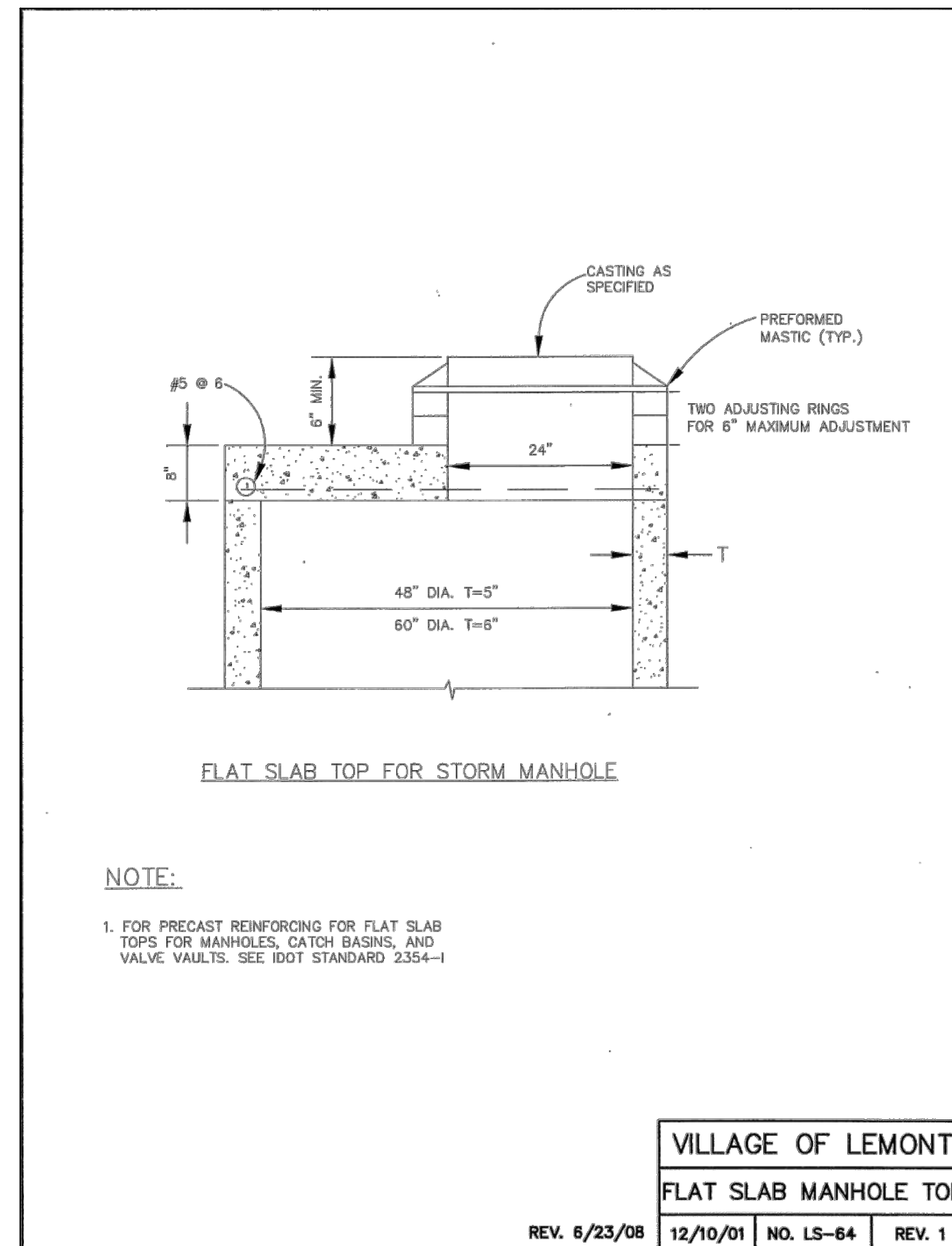
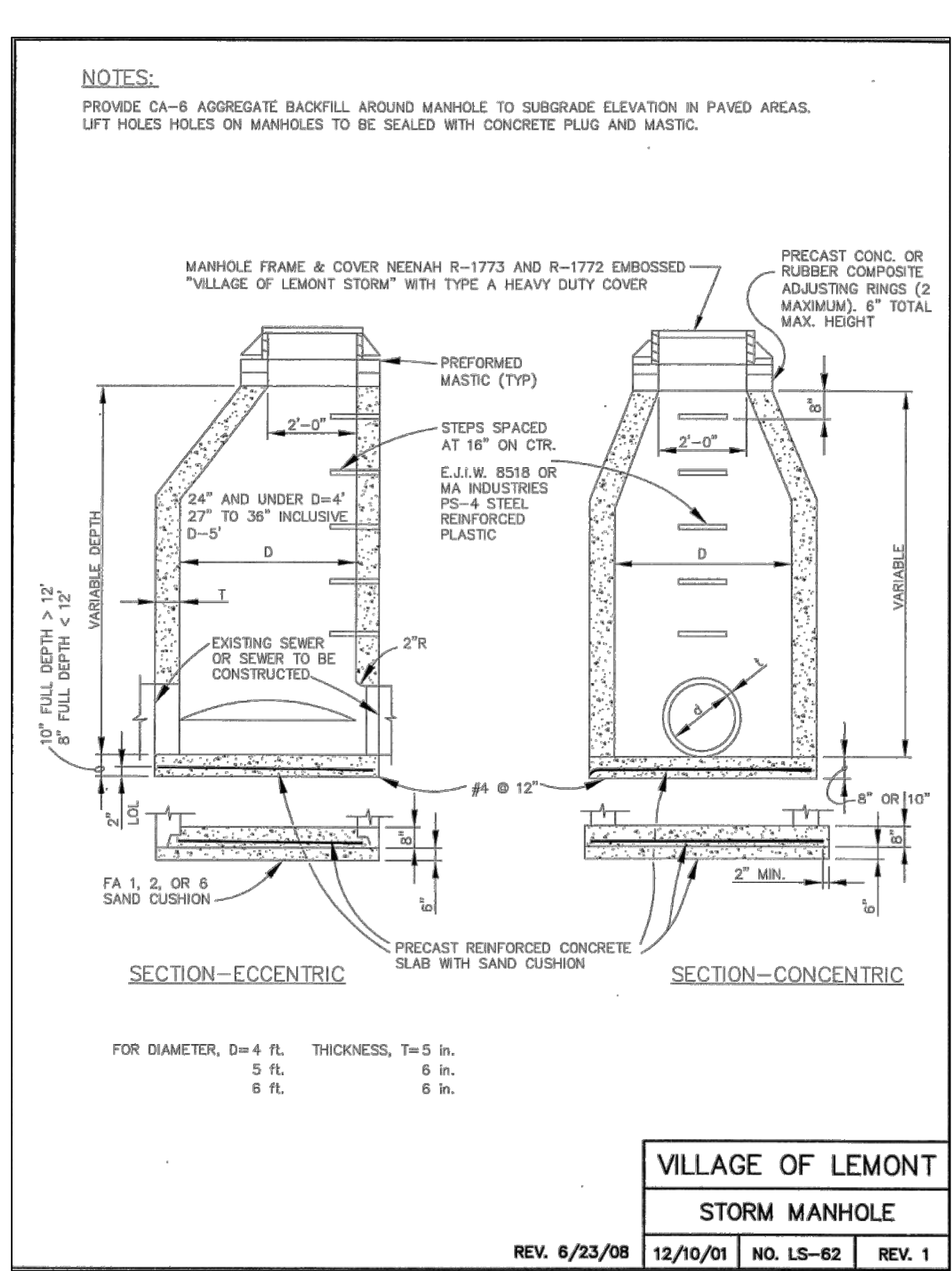
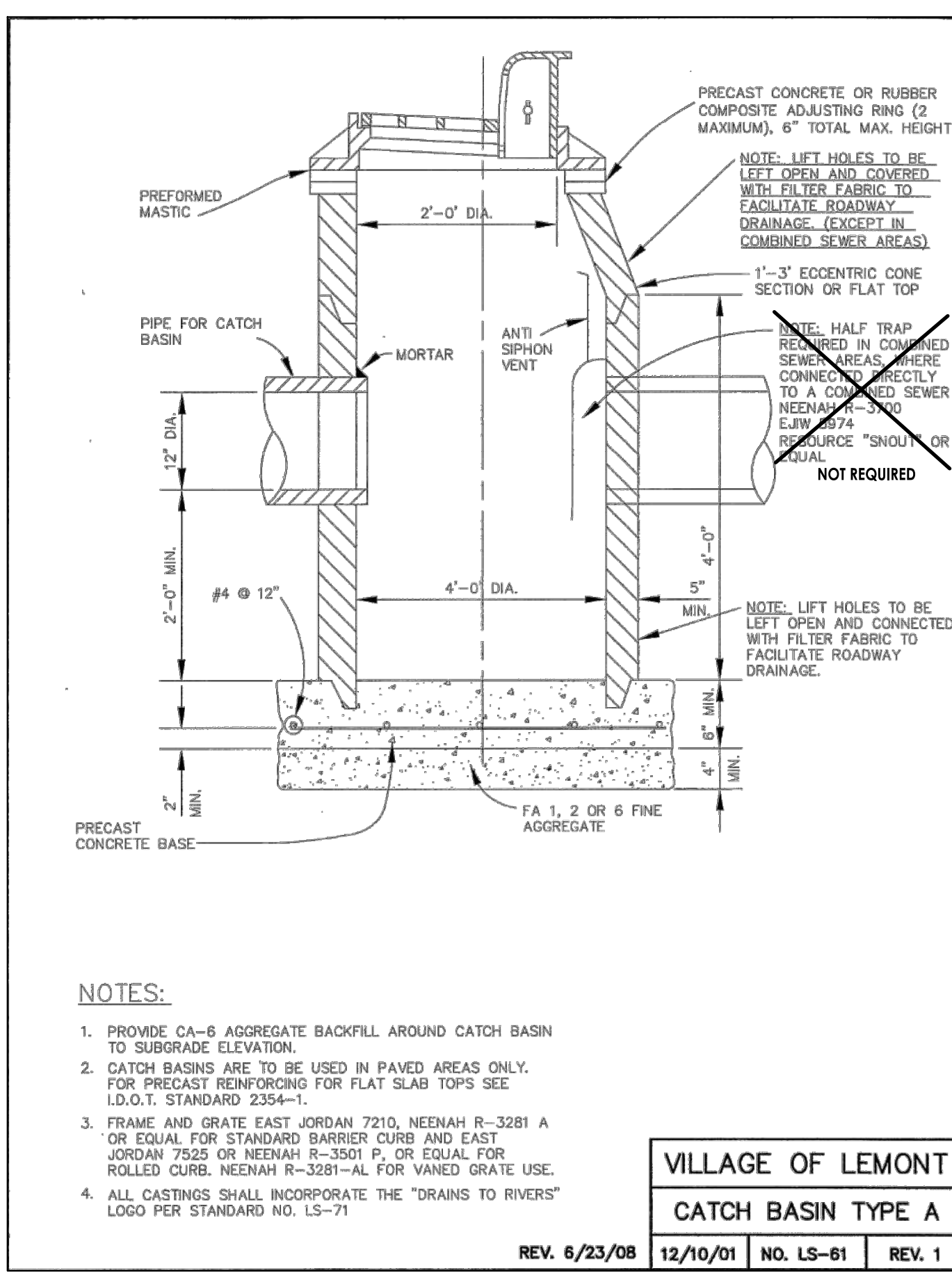
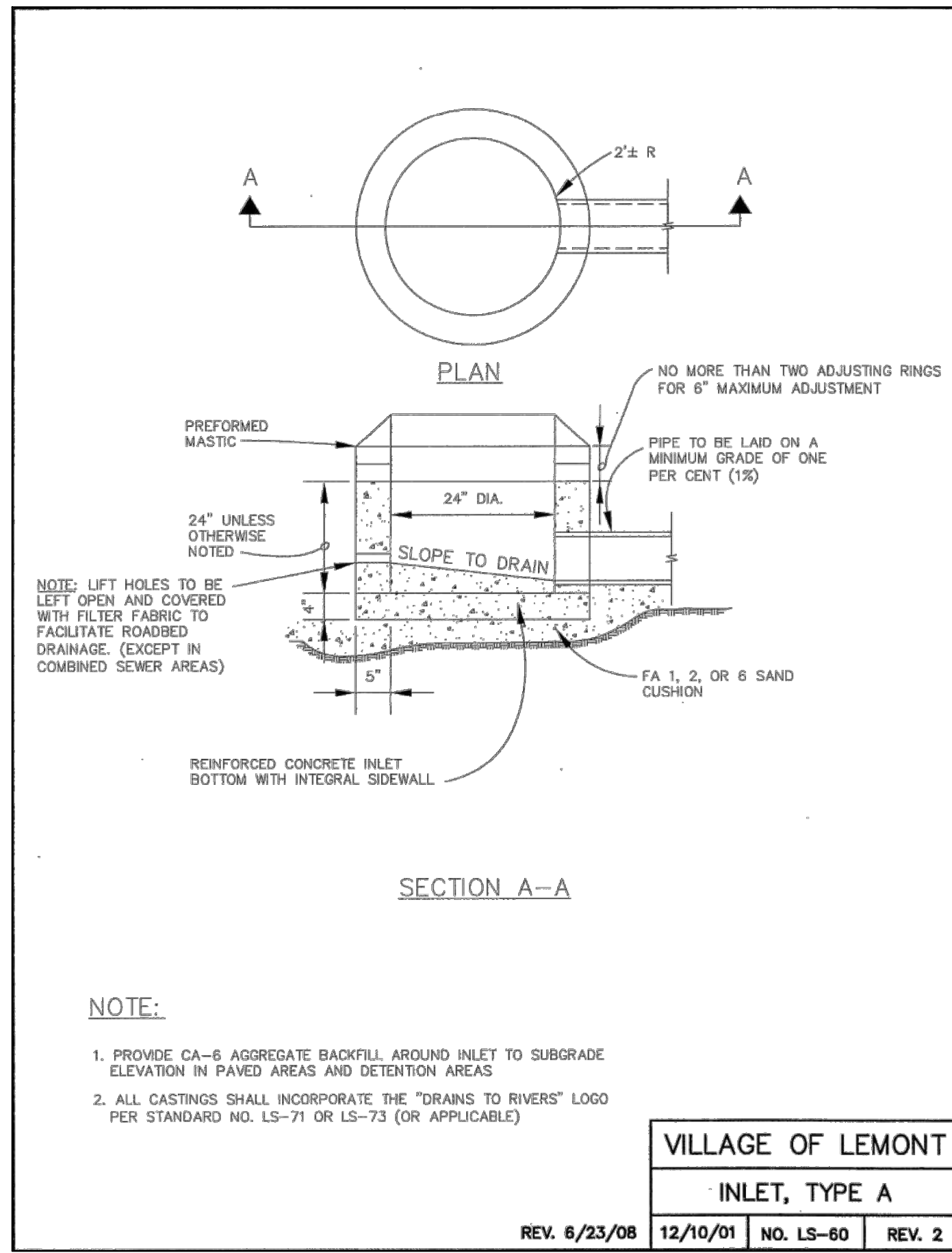
SIGNATURE _____ TITLE _____
COMPANY _____ ADDRESS _____
24 HOUR TELEPHONE NUMBER _____ DATE _____

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SIGNATURE _____ TITLE _____
COMPANY _____ ADDRESS _____
24 HOUR TELEPHONE NUMBER _____ DATE _____

PROJECT NAME: MIRACLE FIELD - CENTENNIAL PARK
PROJECT NO.: 23.DESP.C02
SHEET NO.: C5.1
9 OF 14 SHEETS
SWPPP NOTES
engineering consultants
550 E. Algonquin Road, Suite 250, Schaumburg, IL 60173, Telephone: (630) 756-1180, www.artm.com, IL Design Firm: 18-060677-0002



NO.	DATE	DESCRIPTION	NO.	DATE	DESCRIPTION
07/08/23		VILLAGE REVIEW			
07/13/23		SUBMIT TO AWARD			
07/20/23		ISSUE FOR BID			

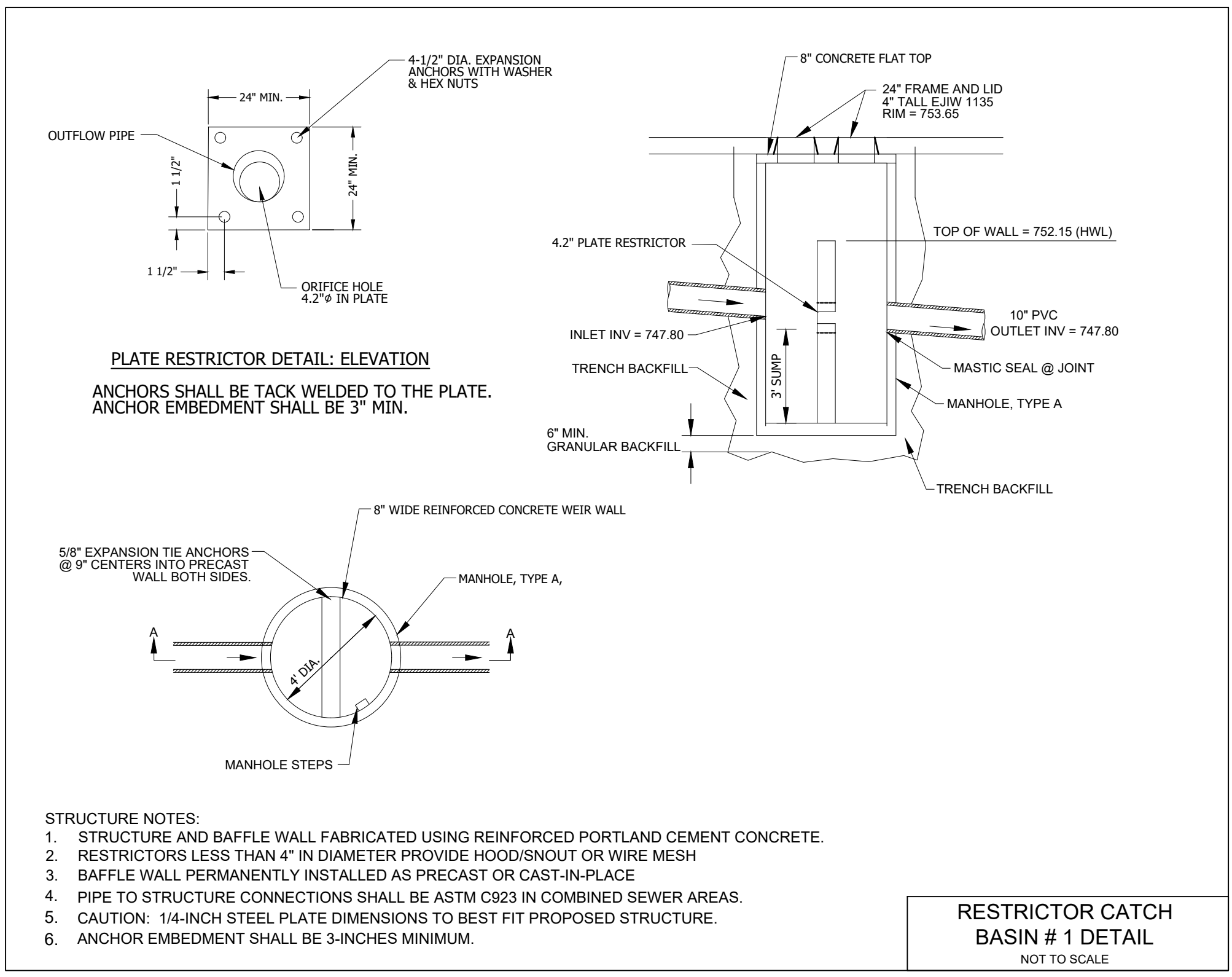
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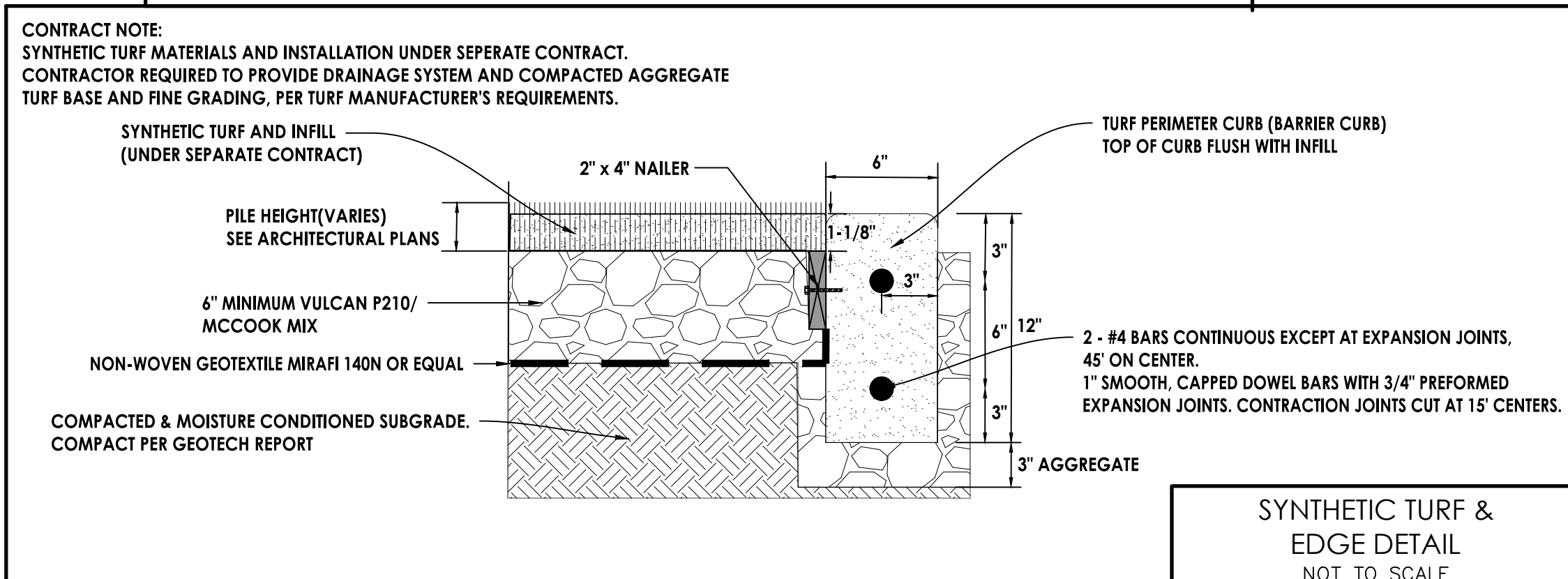
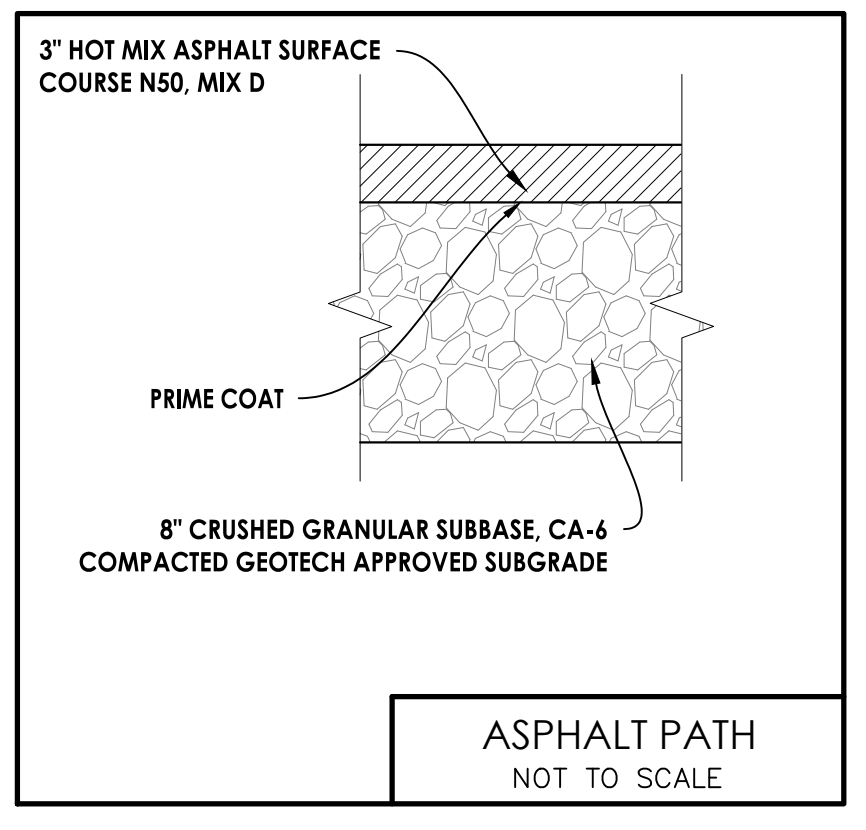
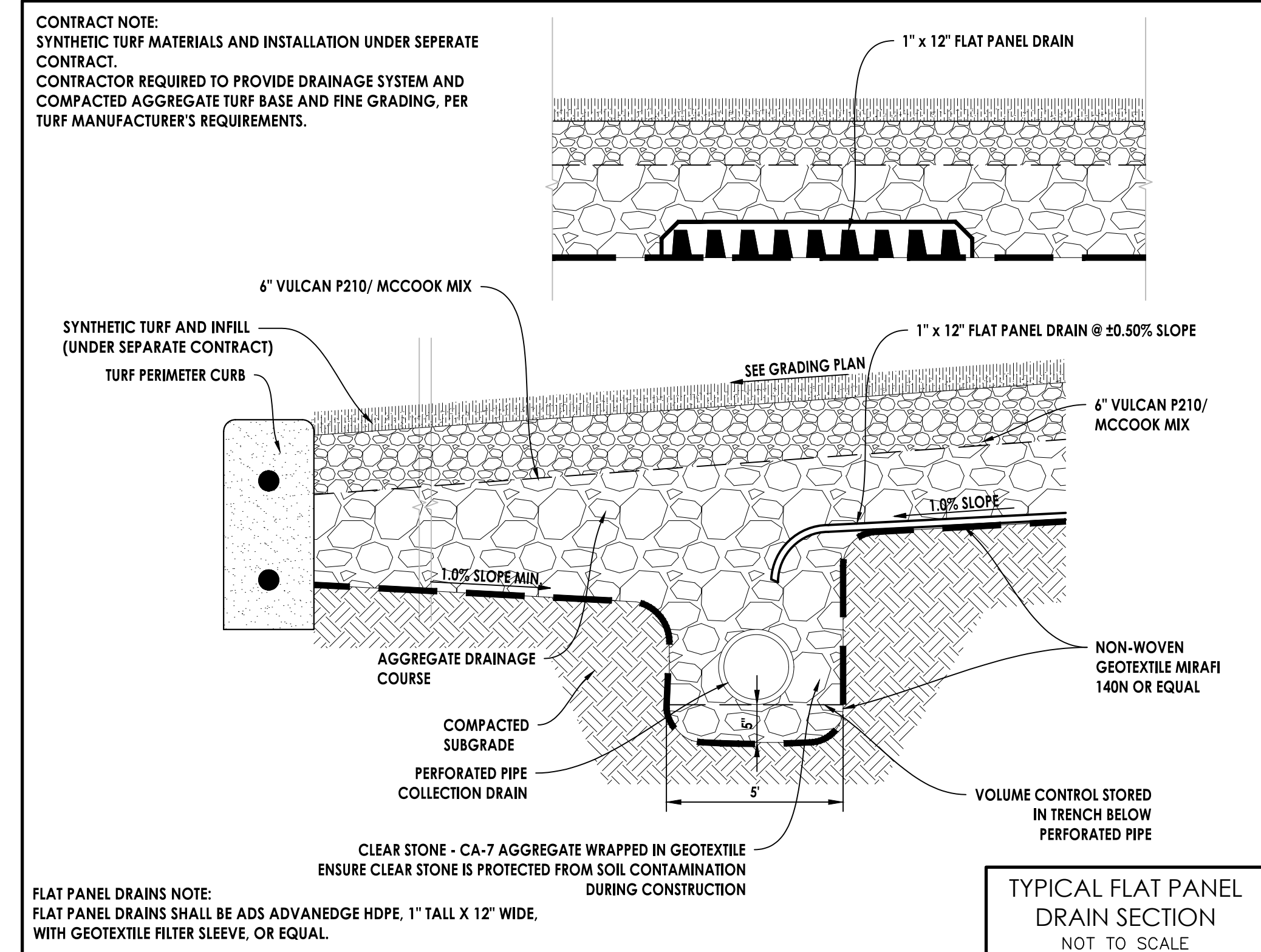
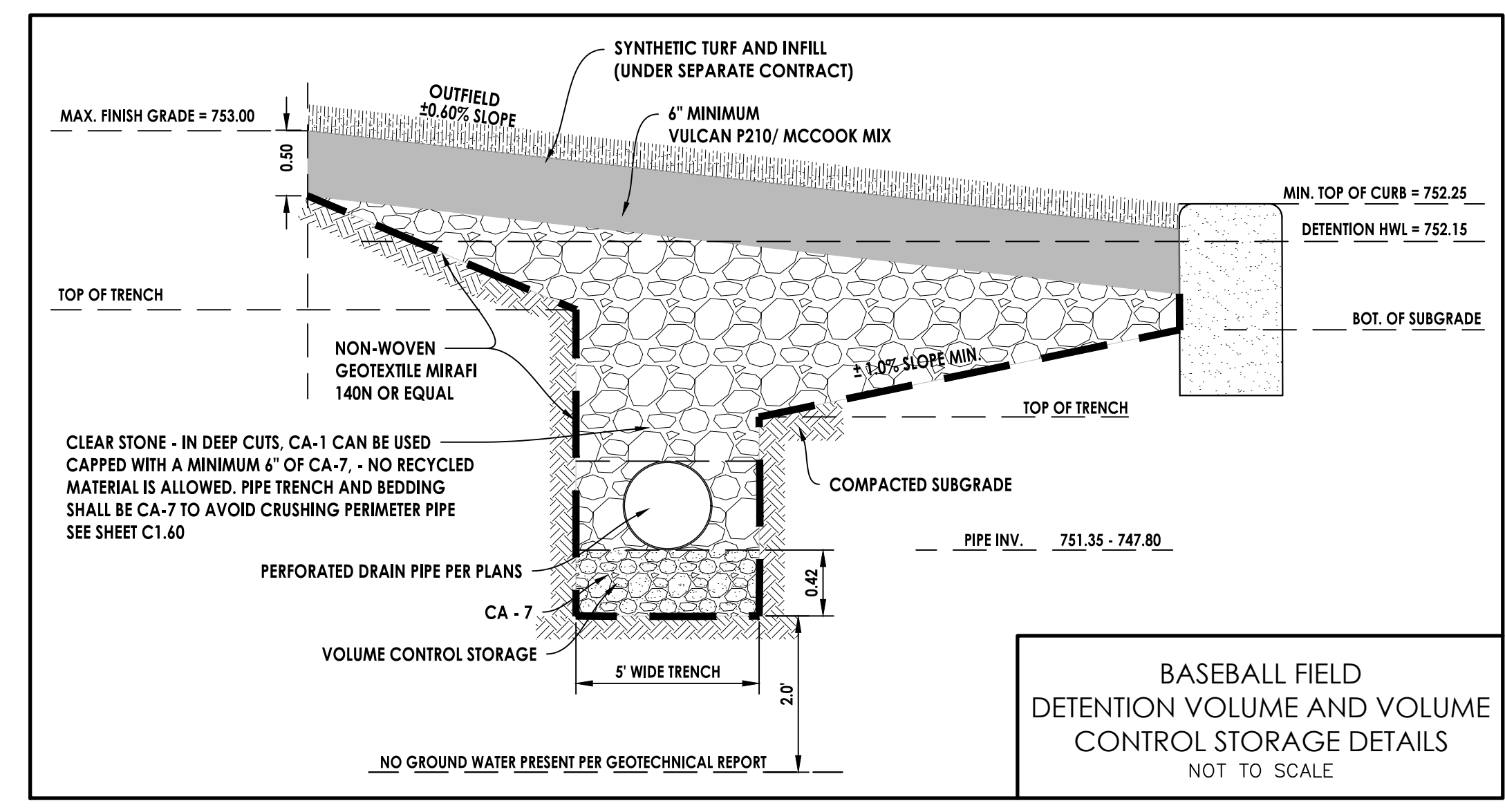
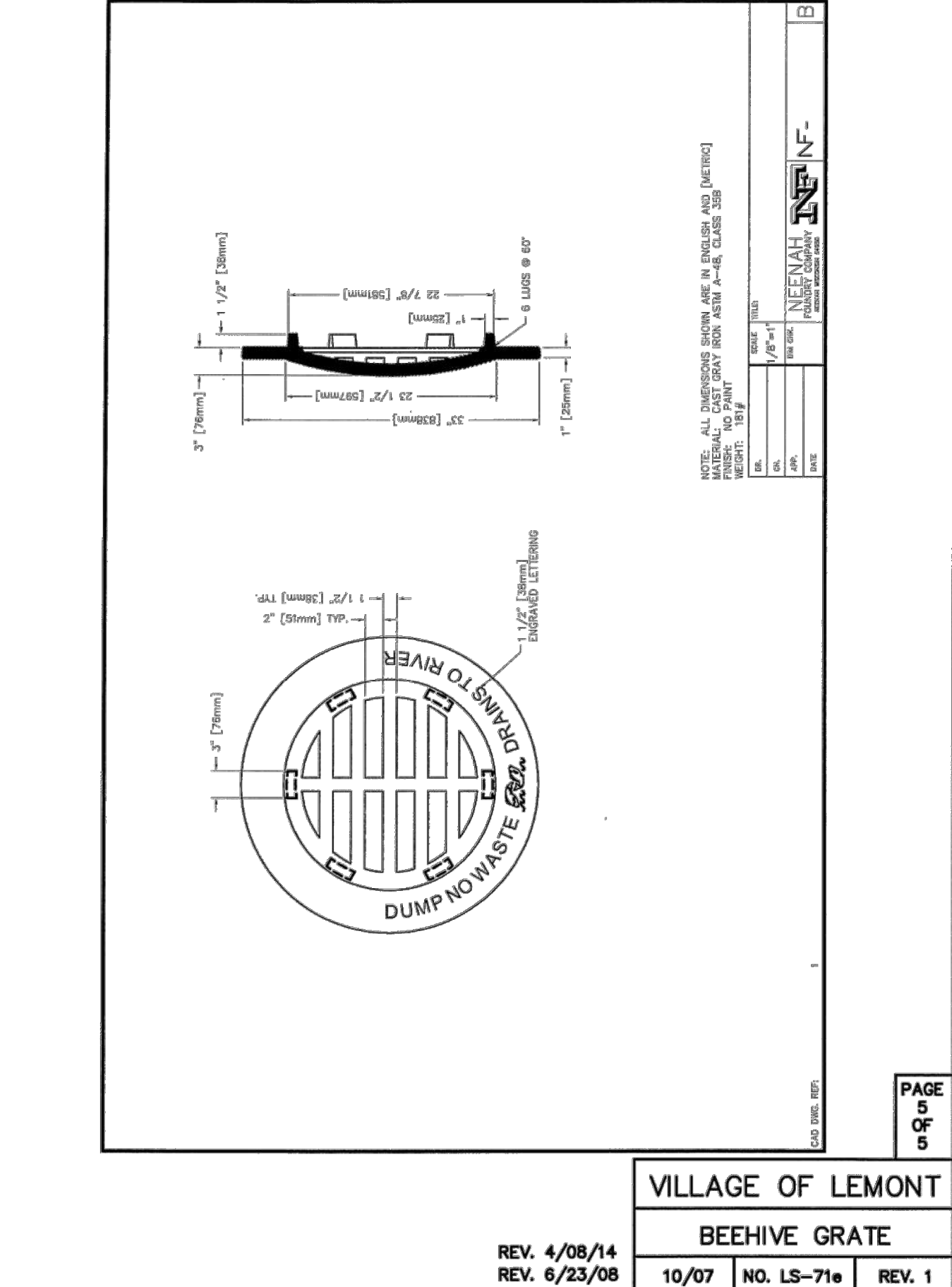
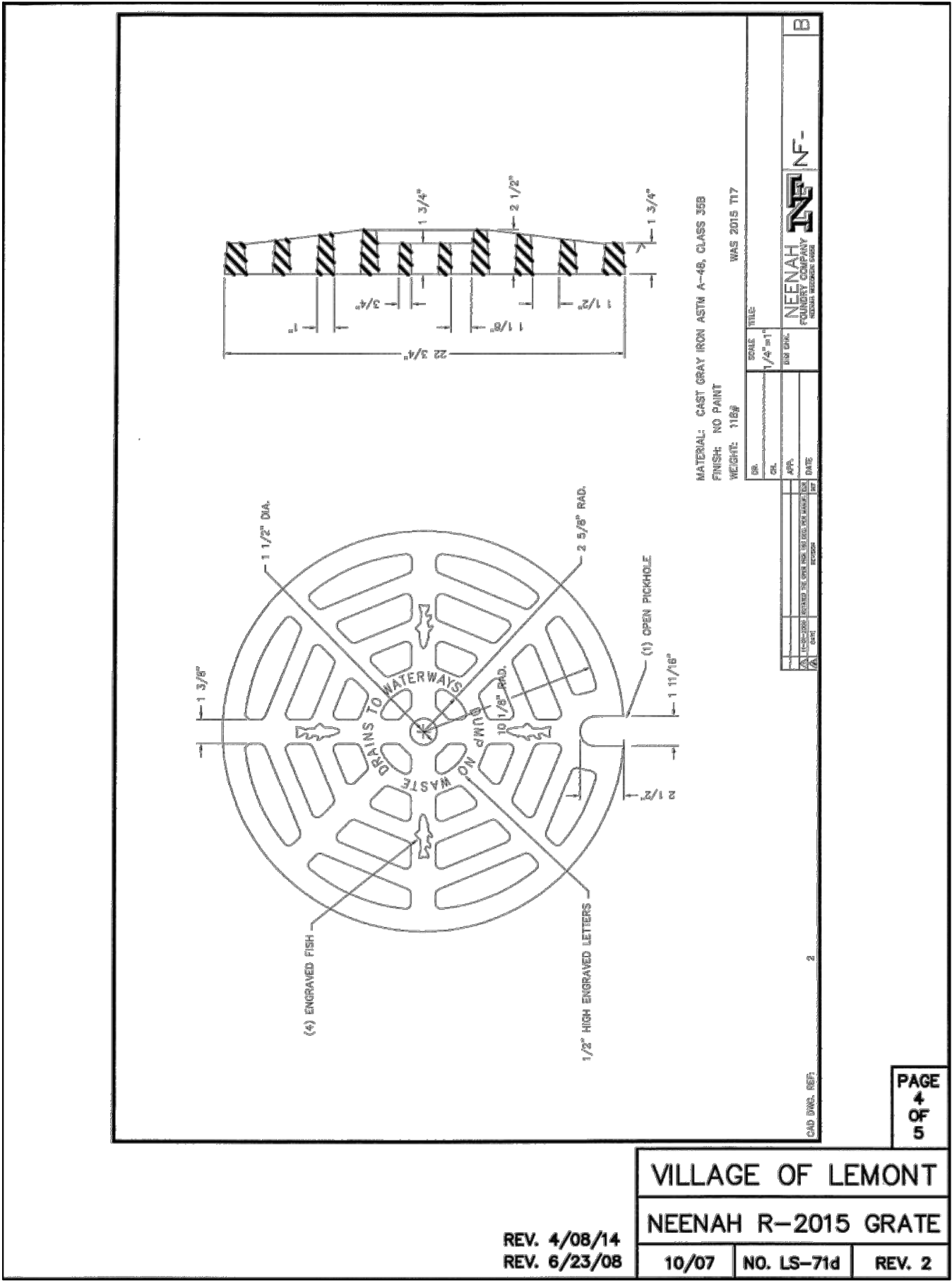
SHEET NAME
MIRACLE FIELD - CENTENNIAL PARK
 LEMONT, IL

PROJECT No.
23.DESP.C02
 SHEET No.
C6.0
 11 OF 14 SHEETS

16028 W 127TH ST



- STRUCTURE NOTES:**
1. STRUCTURE AND BAFFLE WALL FABRICATED USING REINFORCED PORTLAND CEMENT CONCRETE.
 2. RESTRICTORS LESS THAN 4" IN DIAMETER PROVIDE HOOD/SNOUT OR WIRE MESH
 3. BAFFLE WALL PERMANENTLY INSTALLED AS PRECAST OR CAST-IN-PLACE
 4. PIPE TO STRUCTURE CONNECTIONS SHALL BE ASTM C923 IN COMBINED SEWER AREAS.
 5. CAUTION: 1/4-INCH STEEL PLATE DIMENSIONS TO BEST FIT PROPOSED STRUCTURE.
 6. ANCHOR EMBEDMENT SHALL BE 3-INCHES MINIMUM.



NO.	DATE	DESCRIPTION
07/08/23		VILLAGE REVIEW
07/13/23		SUBMIT TO AWARD
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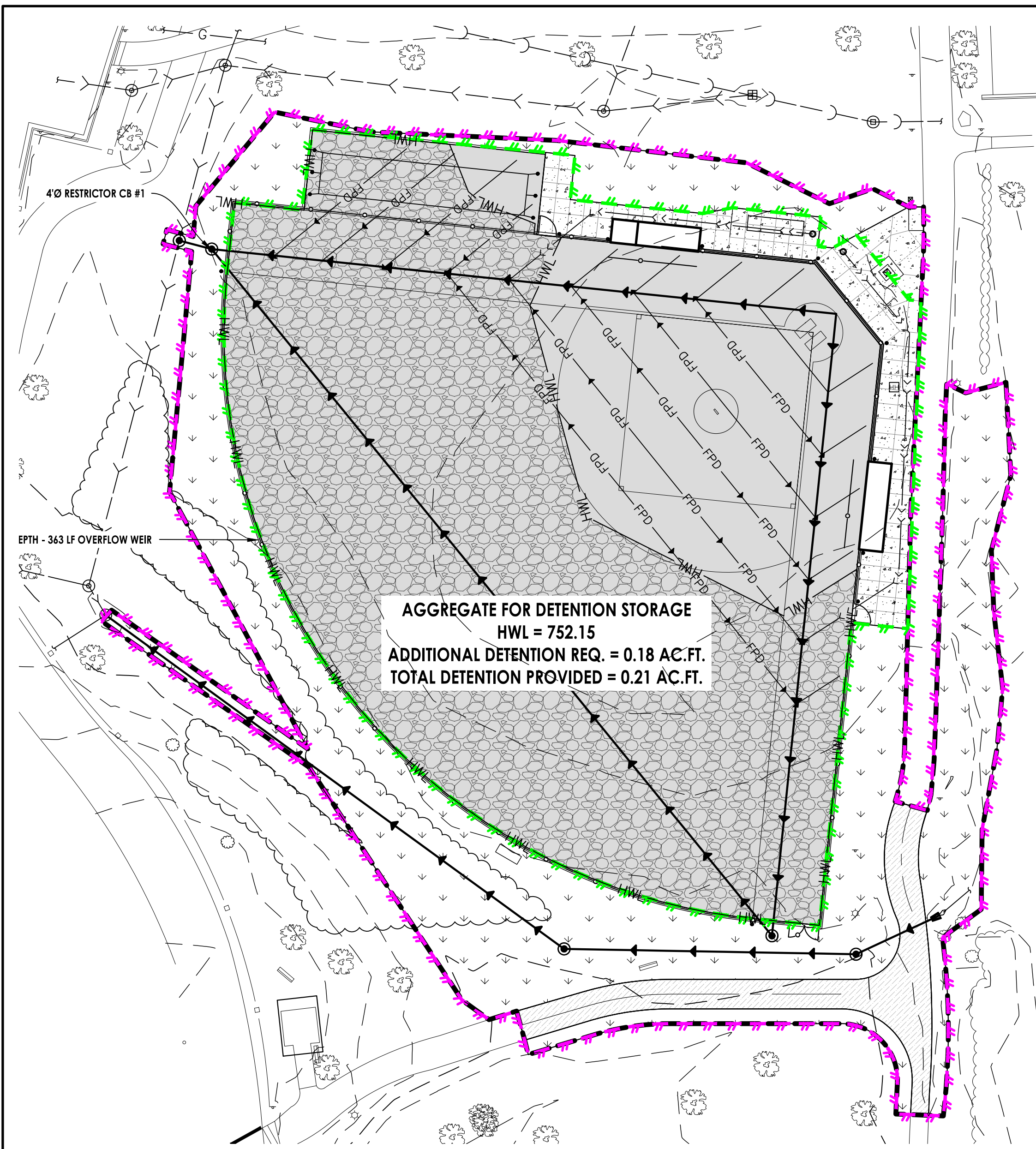
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DETAILS

SHEET NAME: **MIRACLE FIELD - CENTENNIAL PARK**
 PROJECT No. **23.DESP.C02**
 SHEET No. **C6.1**
 16028 W 127TH ST
 LEMONT, IL

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REDEVELOPMENT AREA SUMMARY (TURF BASEBALL/SOFTBALL AND GREENHOUSE)

Surface	Area (sf)	Area (ac)	"C"
Baseball Redevelopment Area	70010.00	1.607	0.66
Allowable Release Rate	0.96 cfs	0.92 cfs/ac	
Actual release Rate	0.96 cfs	0.92 cfs/ac	
Additional Detention required for Project	0.18	ACRE FEET	
Detention Required in Basin	3.41	ACRE FEET	
Detention Provided in Basin per permit #2008-0139	3.51	ACRE FEET	

VOLUME CONTROL SUMMARY

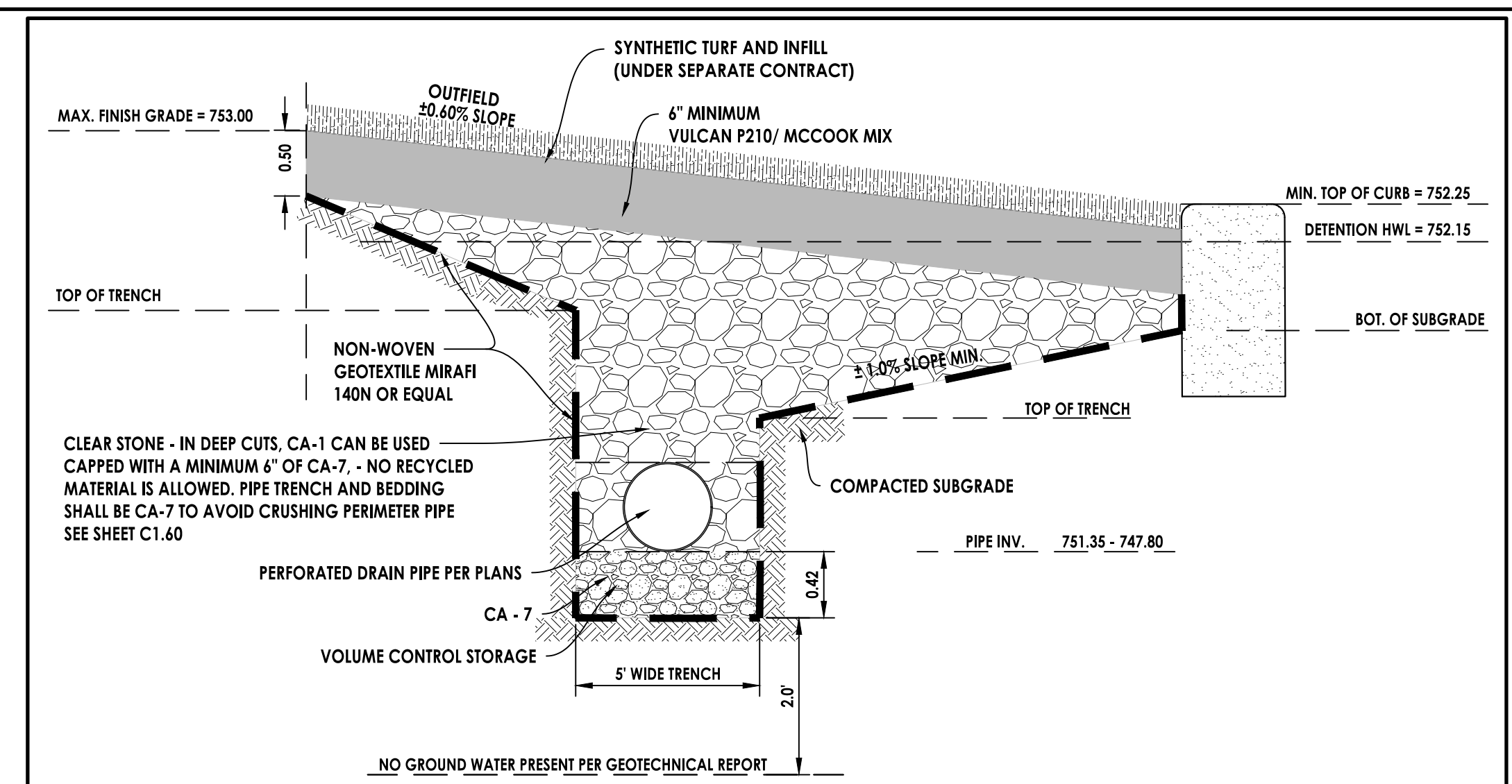
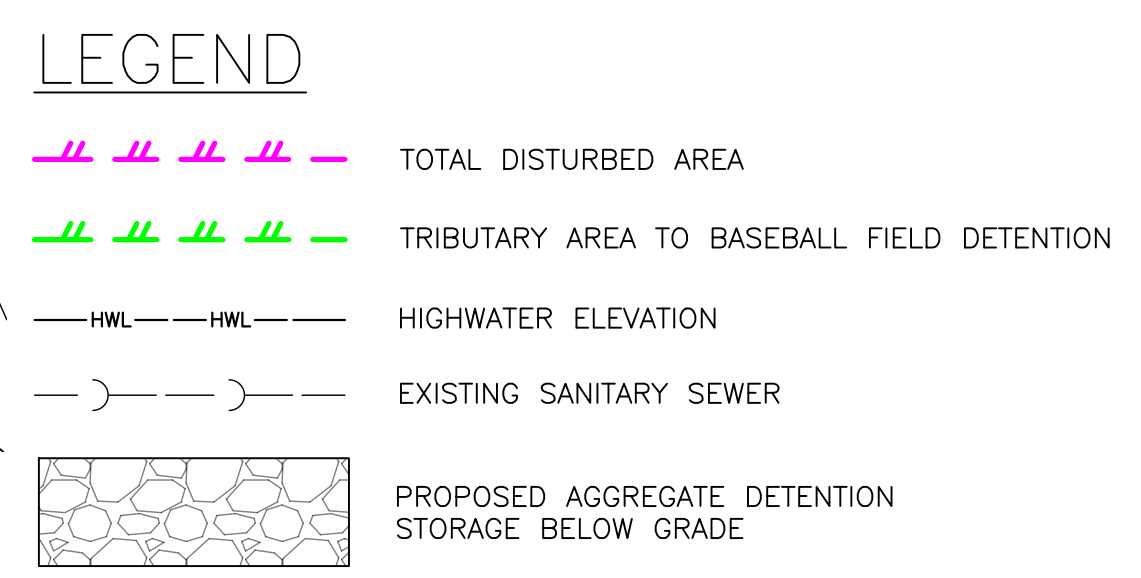
Baseball Redevelopment Impervious Area	0.290	
2023 Total Redev. Impervious Area	0.07	ACRES
Required Volume Control Storage	0.006	ACRE FEET
Provided Volume Control Storage	0.012	ACRE FEET

LAND COVER SUMMARY (TURF BASEBALL)

Surface	Area (sf)	Area (ac)	"C"
Redevelopment Area	70007.20	1.607	0.67
Redevelopment - Impervious	2926	0.067	0.90
Redevelopment - Synthetic Turf	42876	0.984	0.75
Redevelopment - Pervious area	20563	0.472	0.45
Redevelopment - Permeable Conc.	3643	0.084	0.75

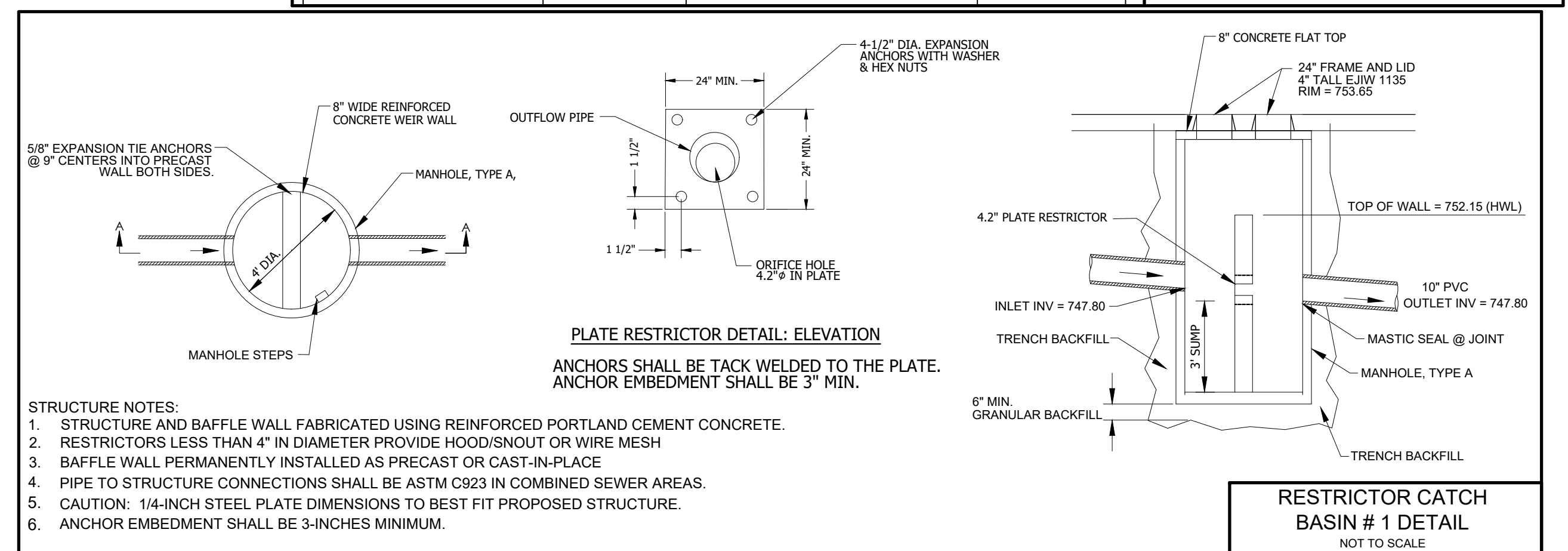
VOLUME CONTROL SUMMARY	
New Impervious Area	0.067 acres
VC Required	0.0058 acre-feet
VC Provided	0.01 acre-feet

DETENTION VOLUME	
DETENTION VOLUME REQUIRED PER SCHEDULE D .LEGACY	0.18 AC.FT.
DETENTION VOLUME PROVIDED AT HWL 751.15	0.21 AC.FT.

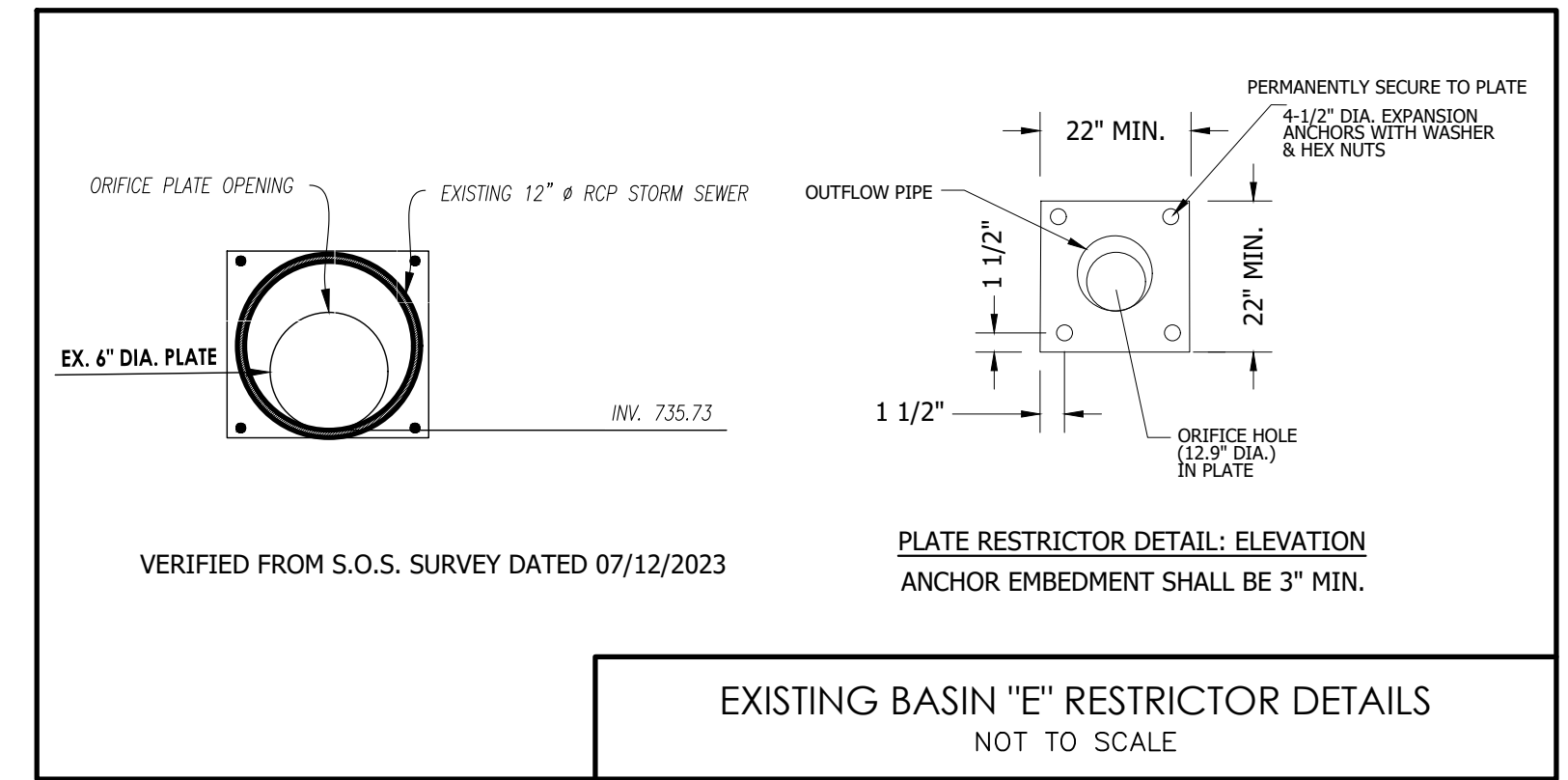
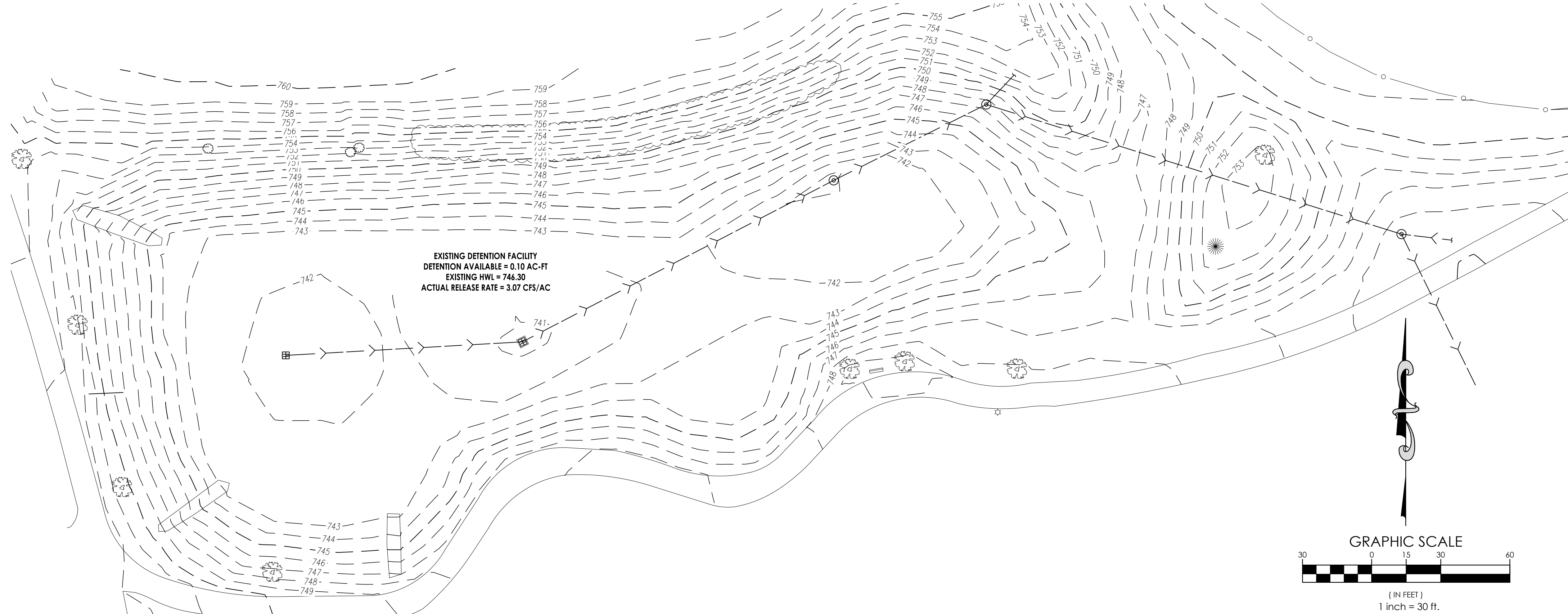


VOLUME TYPE	POROSITY	MEDIA VOLUME	STORAGE VOLUME
AGGREGATE COURSE AT BOTTOM OF STORM SEWER TRENCH	0.36	5" DEEP X 722 LF X 5' WIDE	0.012 AC-FT

BASEBALL FIELD DETENTION VOLUME AND VOLUME CONTROL STORAGE DETAILS
NOT TO SCALE



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EXISTING BASIN "E" RESTRICTOR DETAILS
NOT TO SCALE

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NO.	DATE	DESCRIPTION
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SHEET NAME: **MWRD DRAINAGE EXHIBIT**

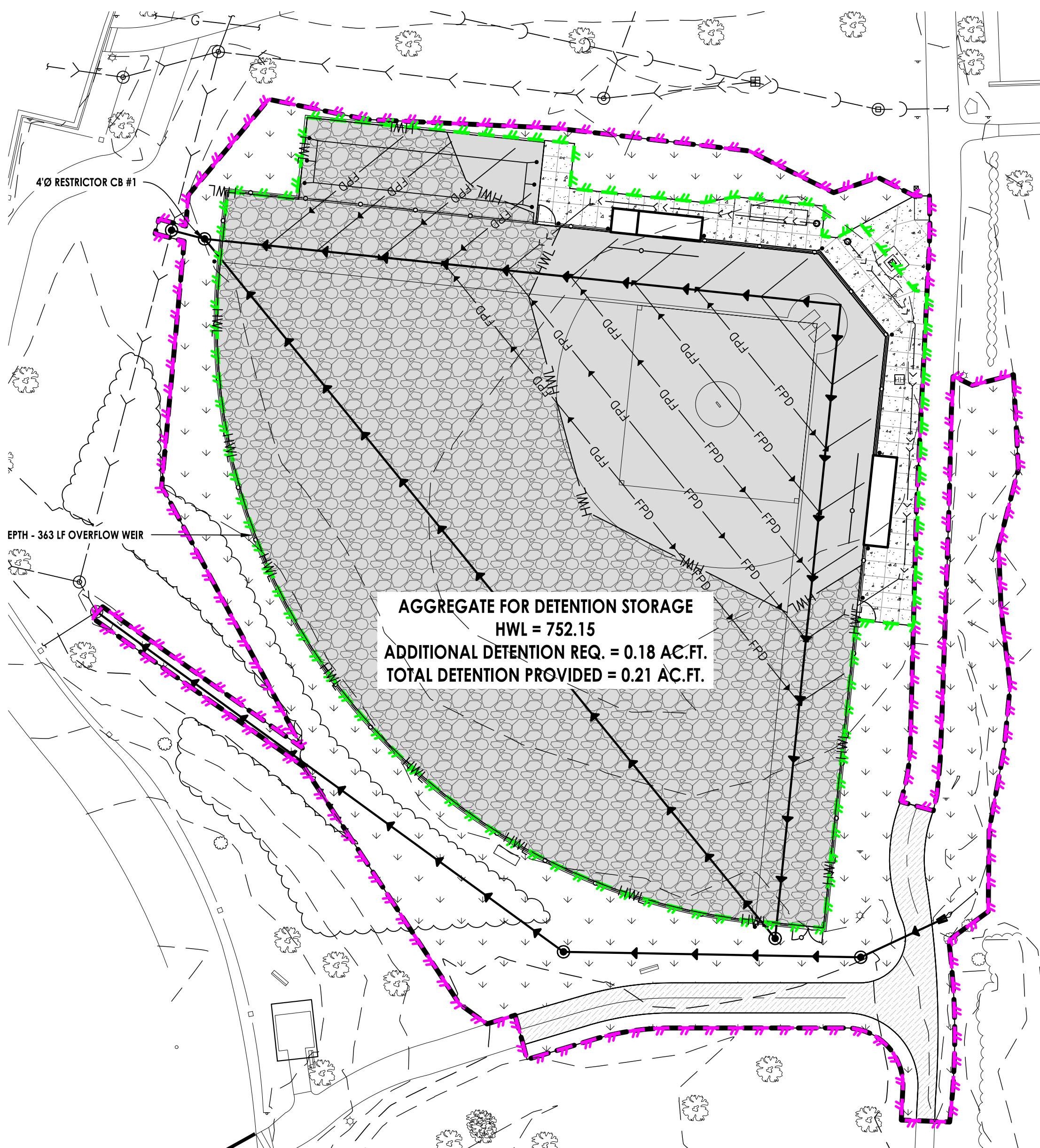
PROJECT NAME: **MIRACLE FIELD - CENTENNIAL PARK**

LEWONT, IL
16028 W 127TH ST

PROJECT No. **23.DESP.C02**

SHEET No. **C7.0**

13 OF 14 SHEETS



LEGEND

- TOTAL DISTURBED AREA
- TRIBUTARY AREA TO BASEBALL FIELD DETENTION
- HIGHWATER ELEVATION
- EXISTING SANITARY SEWER
- PROPOSED AGGREGATE DETENTION STORAGE BELOW GRADE

PERPETUAL MAINTENANCE REQUIREMENTS:
 THE VILLAGE OF LEMONT, WITH FACILITIES AS SHOWN ON THIS EXHIBIT, SHALL ASSUME RESPONSIBILITY FOR THE FOLLOWING PERPETUAL MAINTENANCE ACTIVITIES:

STORMWATER MANAGEMENT & VOLUME CONTROL FACILITIES

- ALL COMPONENTS OF THE STORMWATER MANAGEMENT FACILITIES SHALL BE CHECKED MONTHLY BETWEEN MARCH AND NOVEMBER AND MAINTAINED AS NECESSARY TO ENSURE PROPER PERFORMANCE. IT IS CRITICAL THAT ALL INFLOWS AND OUTFLOWS TO THE DETENTION FACILITY AREA CLEAN AND PERFORMING AS DESIGNED. IN ADDITION, THE DESIGN VOLUME OF THE DETENTION FACILITY SHALL ALSO BE MAINTAINED. INSPECTIONS FOR THE FOLLOWING SPECIFIC ITEMS SHOULD BE CONDUCTED MONTHLY BETWEEN MARCH AND NOVEMBER:

OUTLET CONTROL STRUCTURE

- INSPECT RESTRICTOR AND REMOVE DEBRIS IF CLOGGED OR DISCHARGE REDUCED
- REMOVE ACCUMULATED SEDIMENT AT OUTLET
- ANY ICE DAMAGE TO OUTLET PIPE, REPAIR IF NECESSARY
- CONDITION OF TRASH TRACKS, REMOVE DEBRIS
- OUTLET BACKFLOW PREVENTER STRUCTURE

VEGETATED BASIN

- INSPECT ALL STORMWATER DETENTION & VOLUME CONTROL FACILITIES TO ENSURE THAT THE CONSTRUCTED STORAGE VOLUME IS MAINTAINED. NO SEDIMENT, TOPSOIL, OR OTHER DUMPING INTO THE FACILITY SHALL BE ALLOWED. ACCUMULATE SEDIMENT, SHALL BE DREDGED AS NECESSARY TO PREVENT SEDIMENT FROM REACHING THE INVERT OF ANY GRAVITY OUTLET PIPE
- FACILITY SHALL BE INSPECTED YEARLY USING THE MONITORING WELL TO VERIFY THE SYSTEM IS FUNCTIONING PROPERLY.
- REGULAR MOWING TO CONTROL VEGETATION, NO CUTTING OF NATIVE VEGETATION.
- SUPPLEMENT ADDITIONAL NATIVE VEGETATION IF A SIGNIFICANT PORTION IS NOT ESTABLISHED (50% OF THE SURFACE AREA). RESEED WITH ALTERNATIVE GRASS SPECIES IF ORIGINAL GRASS COVER HAS NOT SUCCESSFULLY ESTABLISHED.
- CHECK FOR INVASIVE SPECIES, REMOVE WHEN POSSIBLE.
- ALL VEGETATION MUST BE MAINTAINED IN THE BASIN AND VOLUME CONTROL BOTTOM.

STORMWATER COLLECTION SYSTEM
 THE OWNER SHALL PERFORM MONTHLY INSPECTIONS OF ALL COMPONENTS OF THE STORMWATER COLLECTION SYSTEM. THE MONTHLY INSPECTION SHALL OCCUR BETWEEN MARCH AND NOVEMBER AND INCLUDE THE FOLLOWING SPECIFIC AREAS OF CONCERN:

STORM SEWERS, INLETS/MANHOLES

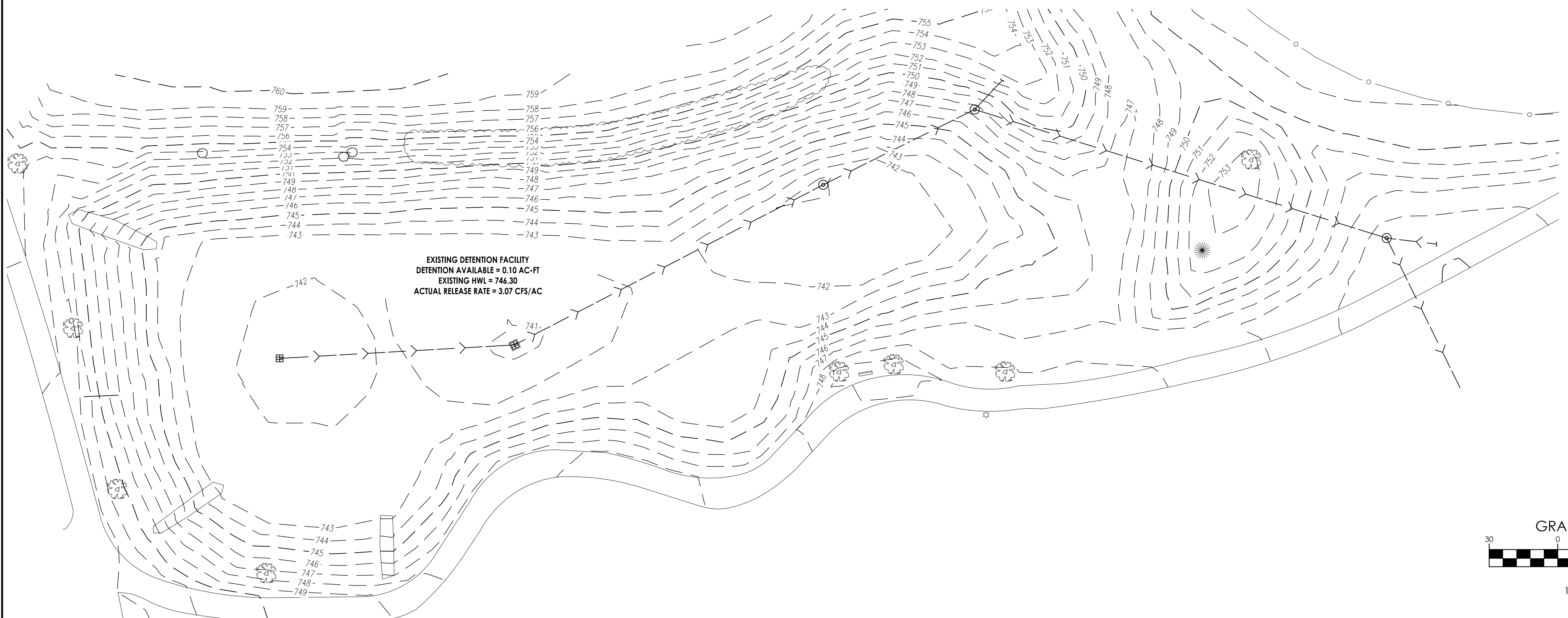
- REMOVE ACCUMULATED LEAVES AND OTHER DEBRIS FROM GRATES.
- RESET COVERS/LIDS ON AS-NEEDED BASIS.
- REMOVE ACCUMULATED SEDIMENT FROM MANHOLE BOTTOM WHEN 50% OF SUMP IS FILLED.
- VISUALLY INSPECT PIPES BY REMOVING MANHOLE LIDS, MAKING REPAIRS AS NECESSARY.
- STORM SEWERS AND CULVERTS SHALL BE CHECKED FOR SILTATION DEPOSITS AT INLETS, OUTLETS, AND WITHIN THE CONDUIT, CLEAN OUT IS NECESSARY.
- RESTORE RIPRAP AT OUTFALLS IF EROSION OBSERVED
- RESTORE RIPRAP AT OUTFALLS
- REPLANT AND RESEED ANY ERODED AREAS.

OVERLAND FLOW ROUTES (DITCHES/SWALES)

- ANNUAL VISUAL INSPECTIONS SHALL BE PERFORMED THAT VERIFY THE DESIGN CAPACITY OF THE OVERLAND FLOW ROUTES MAINTAINED. THE SLOPE AND CROSS-SECTIONAL AREA OF THE DITCH/SWALE SHALL BE VERIFIED DURING THIS INSPECTION.
- REMOVE ANY OBSTRUCTIONS THAT HAVE BEEN PLACED IN THE DRAINAGE PATH.
- SEED AND SOD ANY ERODED AREAS.
- RESTORE RIPRAP AS NECESSARY.
- REGRADE TO PROVIDE POSITIVE DRAINAGE AS NECESSARY
- REGULAR MOWING TO CONTROL VEGETATION

QUALIFIED SEWER CONSTRUCTION

- PERFORM MANHOLE INSPECTIONS ONCE EVERY FIVE YEARS, MAKE REPAIRS AS NECESSARY.
- PERFORM SEWER INSPECTIONS ONCE EVERY FIVE YEARS, MAKE REPAIRS AS NECESSARY.
- PERFORM REGULAR CLEANING SO THAT EACH SEWER SEGMENT IS CLEANED ONCE EVERY FIVE YEARS.
- REMOVE ANY OBSTRUCTIONS PLACED IN MAINTENANCE EASEMENTS THAT MAY IMPEDE MAINTENANCE EQUIPMENT ACCESS.



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SHEET NAME

MWRD

MAINTENANCE PLAN

PROJECT NAME

MIRACLE FIELD - CENTENNIAL PARK

LEWONT, IL

16028 W 127TH ST

PROJECT No.

23.DESP.C02

SHEET No.

C7.1

14 OF 14 SHEETS