

2022 BOND PROGRAM - BID PACKAGE NO 01B

PROJECT NUMBER 22097B

CONSTRUCTION DOCUMENTS

C1.0	DEMOLITION PLAN
C2.0	OVERALL PLAYGROUND LAYOUT PLAN
C2.1	PLAYGROUND LAYOUT ENLARGEMENT PLANS
C2.2	PLAYGROUND LAYOUT ENLARGEMENT PLANS
C2.3	PLAYGROUND LAYOUT ENLARGEMENT PLANS
C3.0	OVERALL PLAYGROUND DRAINAGE PLAN
C3.1	PLAYGROUND DRAINAGE ENLARGEMENT PLAN
C4.0	DETAILS

CE-6.1.0 TOPOGRAPHIC SURVEY
CE-6.2.0 DIMENSION & PAVING PLAN
CE-6.3.0 GRADING, UTILITY & SOIL EROSION CONTROL PLAN
CE-6.4.0 NOTES & DETAILS

BUILDING AREA(S) = NOT APPLICABLE

GOVERNING CODES:

- 2016 SCHOOL FIRE SAFETY RULES
(2012 Life Safety Code, plus amendments)
- 2015 MICHIGAN BUILDING CODE
- 2015 MICHIGAN REHABILITATION CODE FOR EXISTING BUILDINGS
- 2018 MICHIGAN PLUMBING CODE
- 2015 MICHIGAN MECHANICAL CODE
- 2015 MICHIGAN UNIFORM ELECTRIFICATION CODE
(ANSI/ASHRAE/IES Standard 90.1-2013)
- 2017 MICHIGAN ELECTRICAL CODE (2017 NEC, plus Part 8 Rules)
(ASME A17.1-2010, ASME A18.1-2011)
- MICHIGAN BARRIER FREE CODE
(Michigan Building Code and ICC A117.1-2009)
- 2013 MICHIGAN BOILER CODE RULES
(ASME Boiler and Pressure Vessel Code, 2019 edition)
(National Board Inspection Code [NBIC], 2019 edition)

CONSTRUCTION CLASSIFICATION: II-B(MC)/11(000)NF

USE GROUP CLASSIFICATION: E- EDUCATION

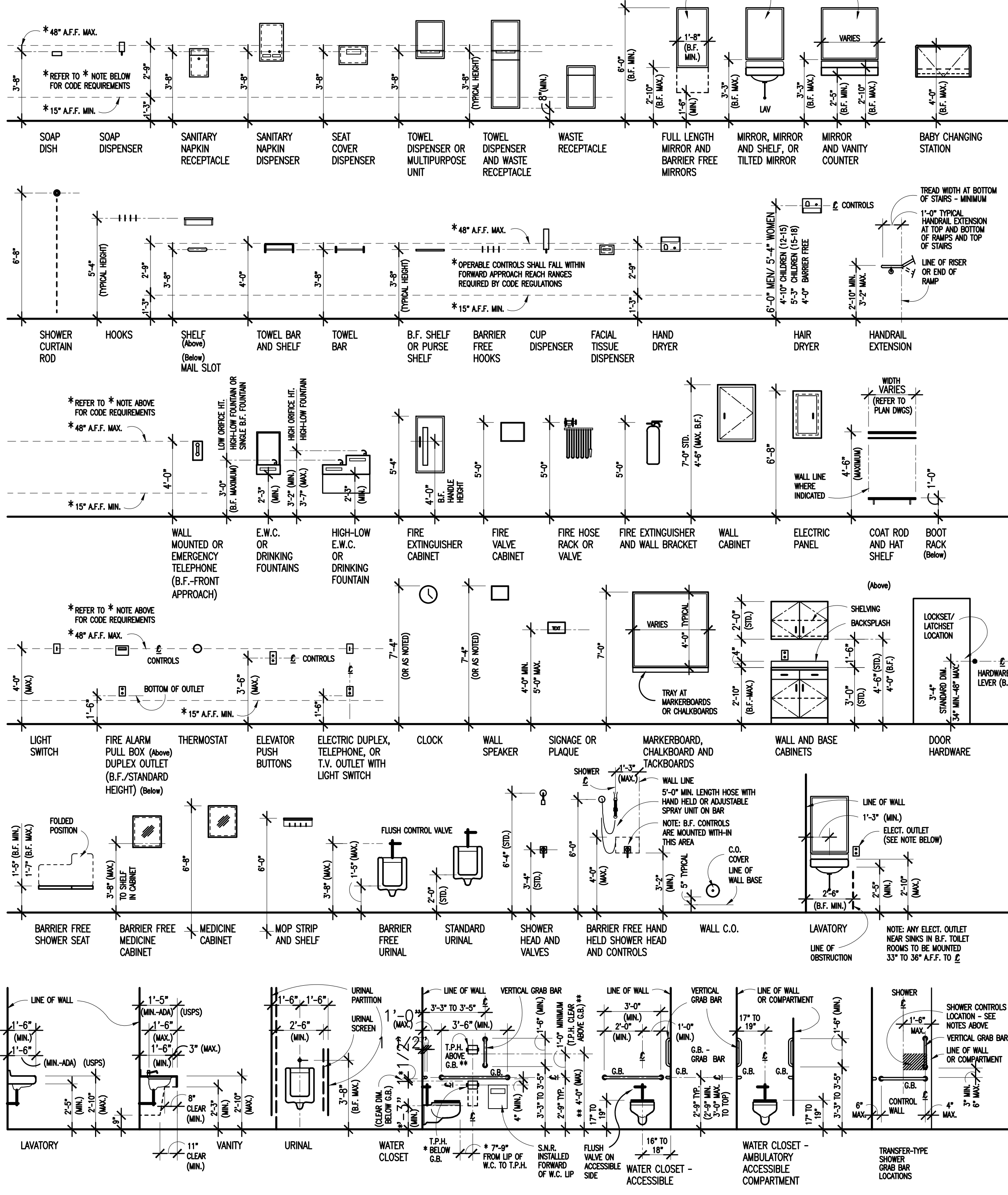
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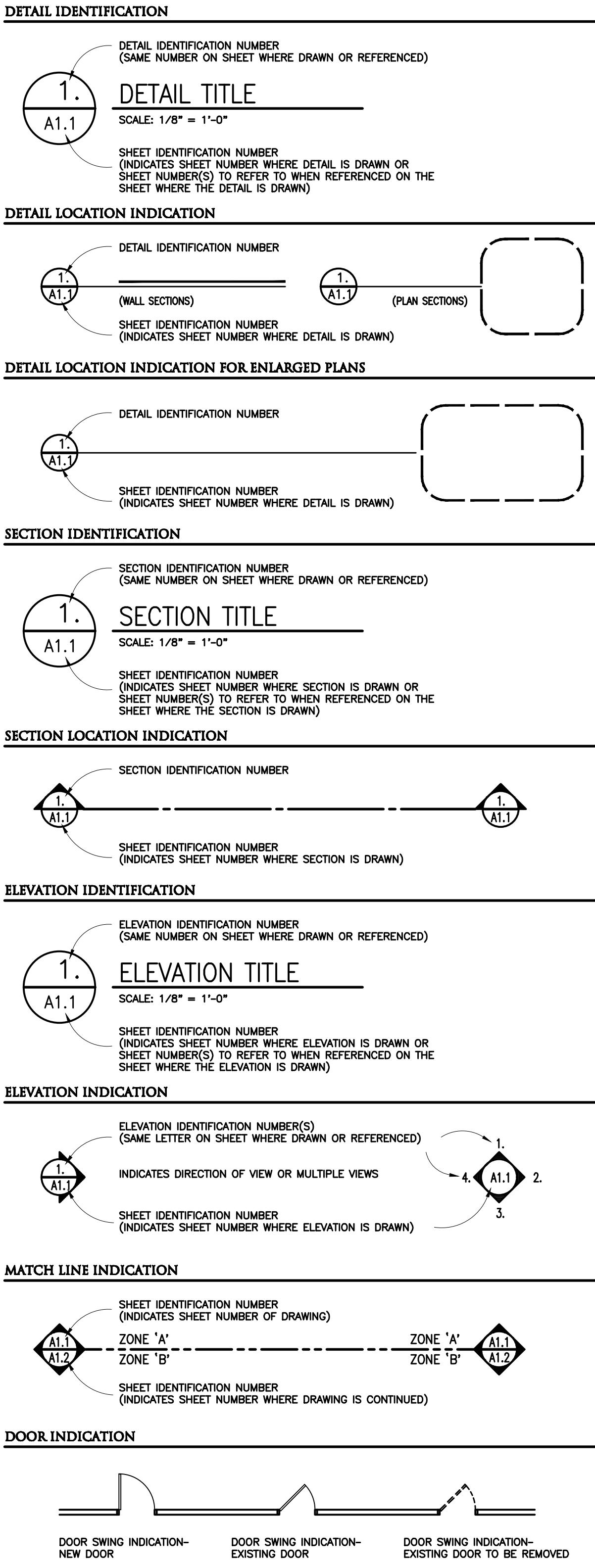
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TS.1

N.S.	NEAR SIDE	STRL	STRAIGHT
NEUT.	NEUTRAL	ST.	STREET
NHC	NOISE REDUCTION COEFFICIENT	STRUCT.	STRUCTURAL
NOM.	NOMINAL	S-	STRUCTURAL DRAWING-NO.
NOR.	NORMAL	S.G.F.T.	STRUCTURAL GLAZED FACING TILE
N	NORTH	S.S.TL	STRUCTURAL STEEL
NOS.	NOSING	S.S.D.	SUBSOIL
N.I.C.	NOT-IN-CONTRACT	S.S.D. DRN	SUBSOIL DRAIN
N.T.SL	NOT-TO-SCALE	S.S.D. CNCTN	SUBSOIL DRAIN CONNECTION
NO. or #	NUMBER	SUB.	SUBSTATION
		S.A.G.	SUPPLY AIR GRILLE
		S.O.	SUPPLY DIFFUSER DUCT
		SUBST.	SUBSTITUTE
		S.A.R.	SUPPLY AIR REGISTER
		S.F.	SUPPLY FAN



ELEVATION	SECTION	MATERIAL	ELEVATION	SECTION	MATERIAL	ELEVATION	SECTION	MATERIAL
		BRICK			FINISH HARDWOOD			GYPSUM DRYWALL (WALLBOARD)
		CONCRETE MASONRY UNITS (BLOCK)			WOOD BLOCKING/ NAILER (Continuous)			PLASTER OR VENEER PLASTER
		SOLID CONCRETE MASONRY UNITS			WOOD BLOCKING/ NAILER (Non-continuous)			CEMENT PLASTER AND METAL LATH
		PREFACED CONCRETE MASONRY UNITS			PARTICLE BOARD (Large Scale)			CERAMIC TILE (Large Scale)
		STRUCTURAL GLAZED FACING TILE			PLYWOOD (Large Scale)			TERRAZZO (Large Scale)
		CONCRETE			HARDWOOD VENEER PLYWOOD (Large Scale)			CARPET (Large Scale)
		STONE/ SLATE/ OR GRANITE			PLASTIC LAMINATE CLAD PLYWOOD OR PARTICLE BOARD (Large Scale)			VINYL COMPOSITION TILE (V.C.T.) (Large Scale)
		EARTH			BATT OR BLANKET INSULATION			SEALANT AND BACKER ROD (Large Scale) (Depth Equal to Half Joint Width)
		POROUS FILL (GRAVEL OR STONE)			RIGID INSULATION			JOINT FILLER MATERIAL OR ISOLATION JOINT FILLER (Large Scale)
		COMPACTED DRAINAGE FILL (SAND)			SPRAY-APPLIED INSULATION			COLD FORMED METAL FRAMING
		MARBLE			ACOUSTICAL CEILING TILE OR PANEL			STRUCTURAL STEEL SHAPES (Continuous Sections Welded or Bolted, Non-continuous Sections Open)
		STEEL AND FERROUS METAL (Large Scale)			GLASS (Large Scale)			
		ALUMINUM AND NON-FERROUS METAL (Large Scale)			GLASS (Small Scale)			

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Landscape Architecture
Urban Planning
Parks & Recreation
Campus & Institutional Planning
Camp Planning & Design

PROJECT TITLE

Wattles Elementary School Playground Remodel Bld Package No.01B

Troy School District
Troy, Michigan

DRAWING TITLE

Demolition Plan

ISSUE DATES

10-03-2024	CONSTRUCTION DOCUMENTS
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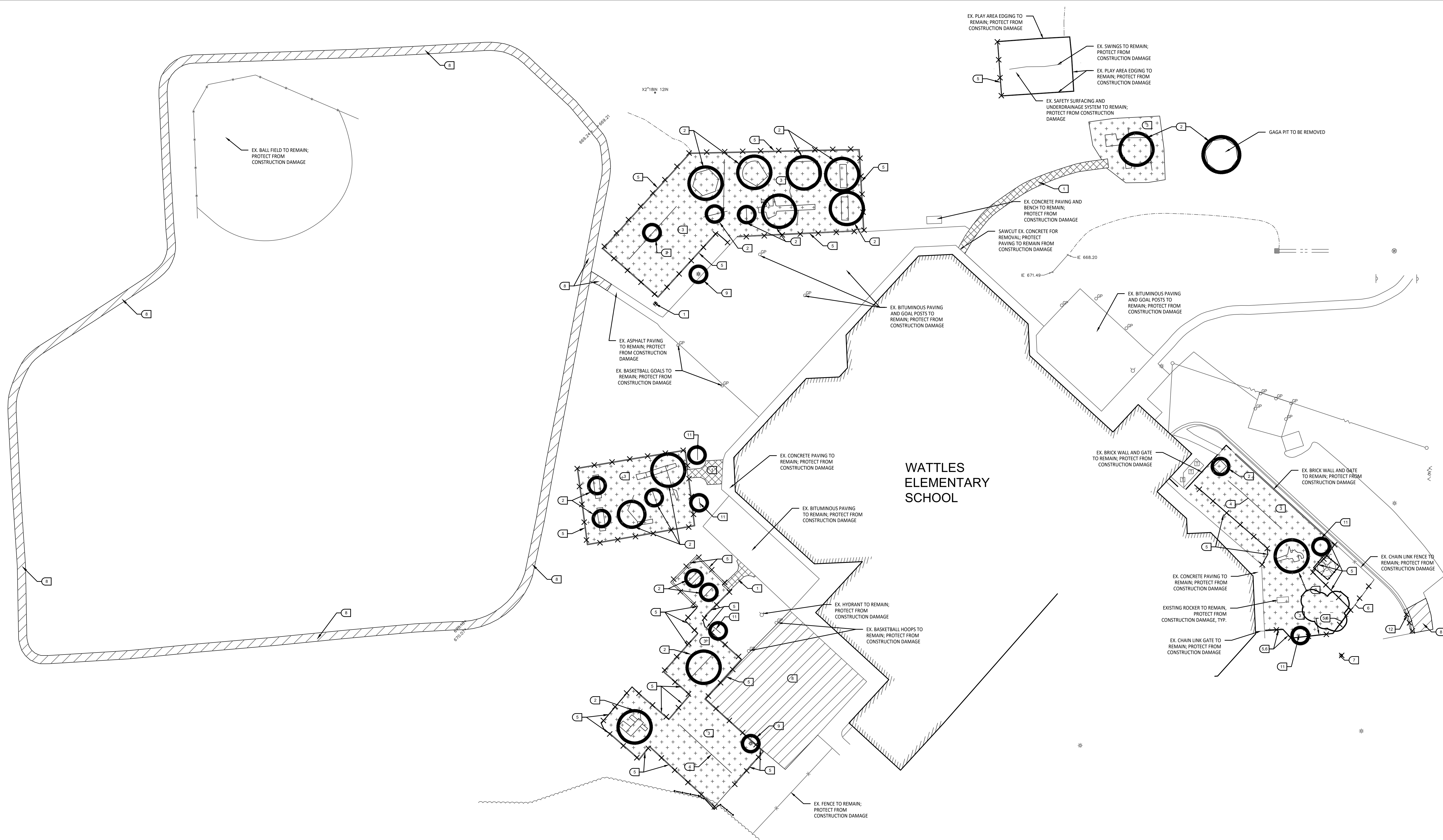
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PROJECT NO.

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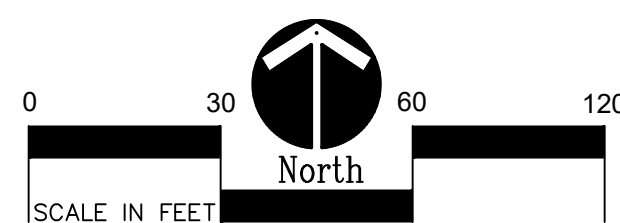
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C1.0



1 Overall Demolition Plan

Scale: 1" = 30'-0"



DEMOLITION NOTES:

1. SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MI, 48326. 248-689-9090.
2. VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
3. PROTECT ALL TREES & EXISTING FEATURES TO REMAIN AS SPECIFIED.
4. REFER TO LAYOUT PLAN FOR LIMITS OF WORK.
5. DISCREPANCIES BETWEEN SITE AND PLANS SHOULD BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.
6. ALL TOPSOIL AND EXCESS FILL MATERIAL SHALL BE STOCKPILED ON SITE SEPARATELY FOR LATER RE-USE. LOCATE STOCKPILES IN AREAS AS DIRECTED BY CONSTRUCTION MANAGER AND PROTECT FROM EFFECTS OF EROSION.
7. ALL PAVEMENT DEMOLITION TO BE SAWCUT AND REMOVED COMPLETELY, INCLUDING BASE/SUBBASE MATERIALS.
8. ALL EXISTING PLAYGROUND EQUIPMENT TO BE REMOVED **MUST BE DESTROYED COMPLETELY** SO THAT IT CANNOT BE RE-ASSEMBLED. THE CONTRACTOR IS NOT ALLOWED TO RE-USE, DONATE, OR SELL ANY EXISTING PLAYGROUND EQUIPMENT SCHEDULED TO BE DEMOLISHED.
9. IN LOCATIONS WHERE PROPOSED PAVING WILL BE INSTALLED WHERE EXISTING PAVING WAS REMOVED, THE BASE MATERIAL MAY BE LEFT IN PLACE PROVIDED IT IS TESTED TO BE ADEQUATE IN BOTH DEPTH AND GRADATION. IF EITHER OF THESE IS INADEQUATE, THE BASE MATERIAL SHOULD BE REMOVED AND REPLACED.

TREE PROTECTION NOTES:

- PROVIDE AND MAINTAIN TEMPORARY TREE PROTECTION FENCING IN ALL LOCATIONS MARKED WITH TREE FENCING SHALL BE PROVIDED AND IN PLACE PRIOR TO ANY WORK ON SITE (INCLUDING TOPSOIL STRIPPING OPERATIONS). REFER TO THE FOLLOWING NOTES AND THE SPECIFICATIONS FOR TREE PROTECTION REQUIREMENTS.
1. NO CONSTRUCTION OPERATIONS, EQUIPMENT, MATERIALS OR TOPSOIL SHALL BE ALLOWED WITHIN THE TREE PROTECTION AREAS.
 2. EXISTING GROUND COVER AND TOPSOIL SHALL NOT BE REMOVED FROM TREE PROTECTION AREAS DURING EARTHWORK PHASE.
 3. VEHICULAR TRAFFIC, PARKING, EQUIPMENT OR MATERIAL STORAGE MAY NOT OCCUR WITHIN THE TREE PROTECTION AREAS AT ANY TIME.
 4. NO EXCAVATION SHALL BE MADE WITHIN THE TREE PROTECTION AREAS EXCEPT AS NOTED OTHERWISE.

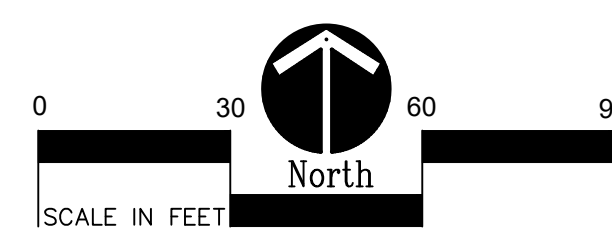
SITE DEMOLITION KEY

- 1 SAWCUT AND REMOVE EXISTING CONCRETE PAVING INCLUDING SUB-BASE.
- 2 REMOVE EXISTING PLAY EQUIPMENT INCLUDING ALL CONCRETE FOOTINGS. DESTROY ALL PLAY EQUIPMENT COMPLETELY SO THAT IT CANNOT BE RE-ASSEMBLED.
- 3 REMOVE EXISTING PLAY SAFETY SURFACING, INCLUDING DRAINAGE AGGREGATE.
- 4 PLAYGROUND CONTRACTOR TO SALVAGE EXISTING PLAY EQUIPMENT AND RE-INSTALL ON-SITE.
- 5 REMOVE EXISTING PLAY EDGING COMPLETELY.
- 6 REMOVE EXISTING FENCING COMPLETELY (INCLUDING FOUNDATIONS)
- 7 REMOVE EXISTING TREE INCLUDING ALL ROOT SYSTEMS.
- 8 SAWCUT AND REMOVE EXISTING BITUMINOUS PAVEMENT INCLUDING SUB-BASE.
- 9 OWNER TO CONFIRM POWER DISCONNECTION FROM LIGHT FIXTURE. SITE CONTRACTOR TO CUT WIRE AT A MINIMUM OF 24" BELOW FINISHED GRADE.
- 10 SALVAGE EXISTING PLAY EQUIPMENT, PLAYGROUND CONTRACTOR TO REINSTALL ON SITE.
- 11 SALVAGE EXISTING SITE FURNISHINGS AND REINSTALL AT LOCATION TO BE DETERMINED.
- 12 SAWCUT AND REMOVE EXISTING CURB AND GUTTER.

DEMOLITION LEGEND:

	SAWCUT AND REMOVE BITUMINOUS PAVEMENT AND BASE		REMOVE EXISTING FENCE
	SAWCUT AND REMOVE CONCRETE PAVEMENT, INCLUDING SUBBASE		SAWCUT & REMOVE CONCRETE CURB & GUTTER
	REMOVE PLAY SAFETY SURFACING INCLUDING DRAINAGE AGGREGATE		REMOVE MISCELLANEOUS FEATURE AS NOTED
	NO WORK, PARKING OR STORAGE IN THIS SHADED AREA		RELOCATE EXISTING SITE LIGHTING PER ELEC. PLAN
	REMOVE TREE		TEMPORARY TREE PROTECTION FENCE, REFER TO DETAIL 1/C4.0

1 Overall Playground Layout Plan



BARRIER-FREE NOTES

BARRIER-FREE PARKING AND ACCESSIBLE ROUTE(S) MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND MICHIGAN BARRIER-FREE CODE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- 1:50 (2%) MAXIMUM CROSS-SLOPE ON ACCESSIBLE ROUTE.
- NO CHANGES IN LEVEL GREATER THAN 1/2" ALONG ACCESSIBLE ROUTE.
- 1:20 (5%) MAXIMUM LONGITUDINAL SLOPE ON ACCESSIBLE ROUTE (EXCEPT WHERE RAMPS ARE PROVIDED).
- 1:50 (2%) MAXIMUM SLOPE (IN ANY DIRECTION) IN B.F. PARKING AND ACCESS AISLES.

NOTE: PLAYGROUND EQUIPMENT AND SURFACING PURCHASE AND INSTALLATION IS UNDER SEPARATE CONTRACT AND IS NOT INCLUDED IN THIS BID PACKAGE. CONTRACTOR IS REQUIRED TO COORDINATE INSTALLATION OF PLAYGROUND EQUIPMENT AND SURFACING WITH PLAYGROUND INSTALLER PRIOR TO ANY EXCAVATION AND CONCRETE CURBING OR PAVING INSTALLATION.

NOTE: VERIFY LOCATION OF NEW PLAYGROUND EQUIPMENT PRIOR TO INSTALLATION OF ANY CONCRETE CURB. CONCRETE CURB TO BE INSTALLED OUTSIDE OF FALL SAFETY ZONE OF EACH PIECE OF EQUIPMENT PER ASTM 1487-0 AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.

LAYOUT NOTES:

1. SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN 48376, (245)689-9090.
2. PAVEMENT DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT OR BACK OF CURB. PLASTIC EDGING IS MEASURED TO /FROM CENTER OF PAV.
3. DISCREPANCIES BETWEEN SITE AND PLANS SHOULD BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.
4. VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
5. VERIFY BARRIER FREE PARKING SIGNS FOR ALL BARRIER FREE PARKING SPACES. ALL SIGNS TO COMPLY WITH THE M207 MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
6. SITE LAND/ WAY POINTS SHOULD BE ESTABLISHED AND PROTECTED FOR FUTURE SITE WORK.



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Landscape Architecture
Urban Planning
Parks & Recreation
Campus & Institutional Planning
Camp Planning & Design

PROJECT TITLE

Wattles Elementary School Playground Remodel Bid Package No.01B

Troy School District
Troy, Michigan

DRAWING TITLE
Overall Playground
Layout Plan

ISSUE DATES

[illegible]

DATE: ISSUED FOR:

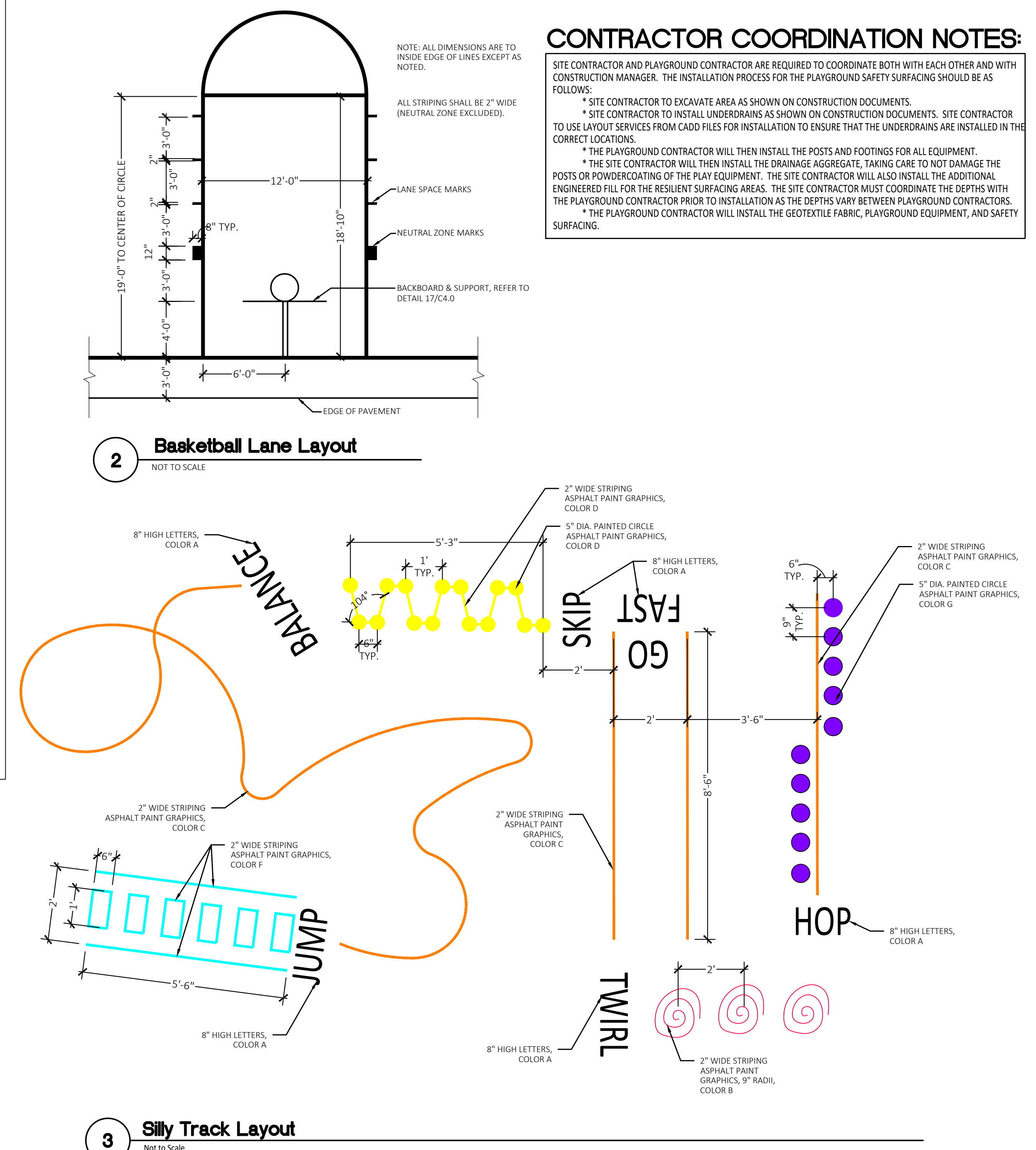
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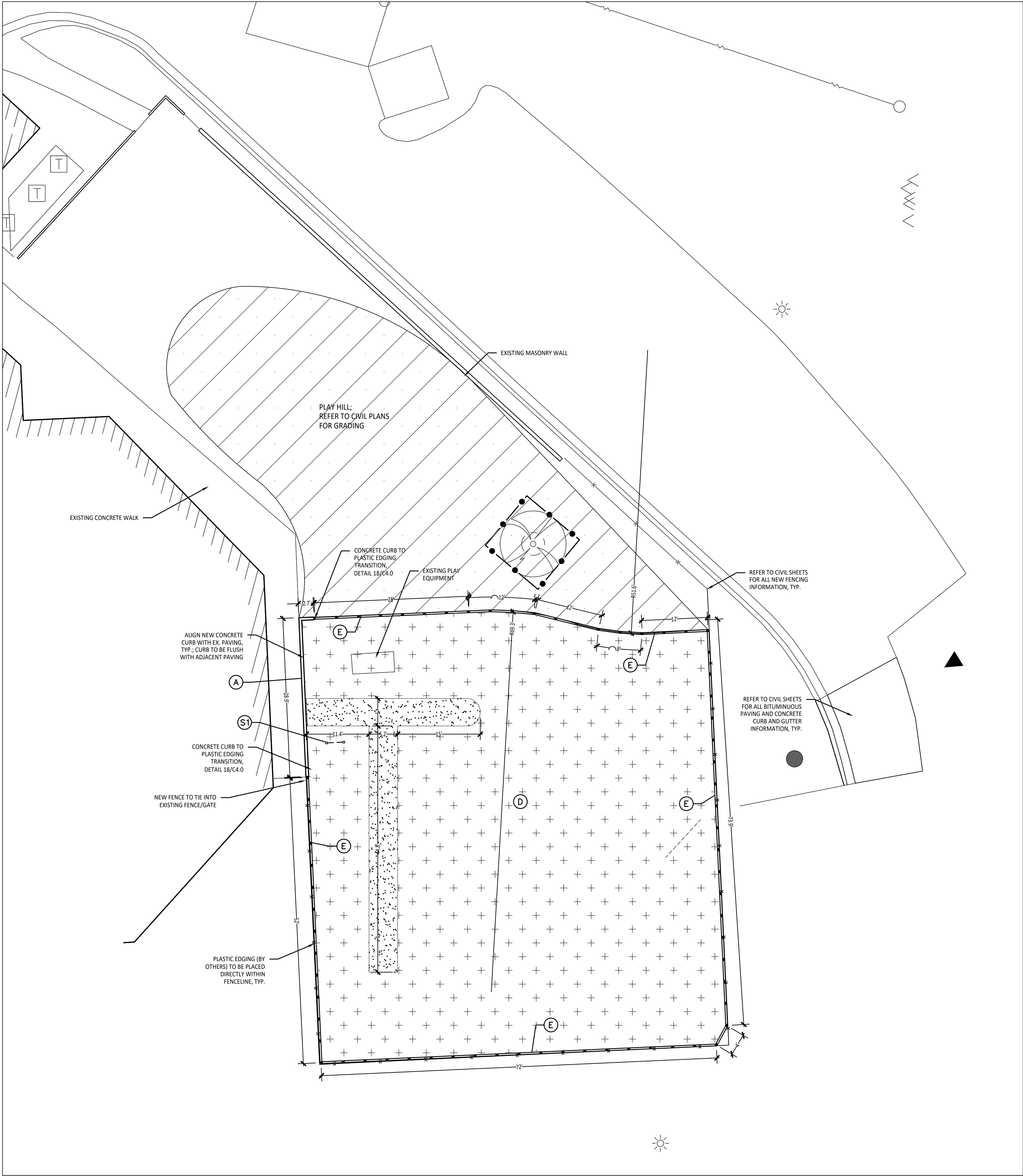
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C2.0



3 Silly Track Layout



1 Playground Layout Enlargement Plan - Kindergarten
Scale: 1" = 10'-0"

BARRIER-FREE NOTES

BARRIER-FREE PARKING AND ACCESSIBLE ROUTE(S) MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND MICHIGAN BARRIER-FREE CODE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- 1:50 (2%) MAXIMUM CROSS-SLOPE ON ACCESSIBLE ROUTE.
- NO CHANGES IN LEVEL GREATER THAN 1/2" ALONG ACCESSIBLE ROUTE.
- 1:20 (5%) MAXIMUM LONGITUDINAL SLOPE ON ACCESSIBLE ROUTE (EXCEPT WHERE RAMPS ARE PROVIDED).
- 1:50 (2%) MAXIMUM SLOPE (IN ANY DIRECTION) IN B.F. PARKING AND ACCESS AISLES.

NOTE: VERIFY LOCATION OF NEW PLAYGROUND EQUIPMENT PRIOR TO INSTALLATION OF ANY CONCRETE CURB. CONCRETE CURB TO BE INSTALLED OUTSIDE OF FALL SAFETY ZONE OF EACH PIECE OF EQUIPMENT PER ASTM 1487-05 AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.

NOTE: PLAYGROUND EQUIPMENT AND SURFACING PURCHASE AND INSTALLATION IS UNDER SEPARATE CONTRACT AND IS NOT INCLUDED IN THIS BID PACKAGE. CONTRACTOR IS REQUIRED TO COORDINATE INSTALLATION OF PLAYGROUND EQUIPMENT AND SURFACING WITH PLAYGROUND INSTALLER PRIOR TO ANY EXCAVATION AND CONCRETE CURBING OR PAVING INSTALLATION.

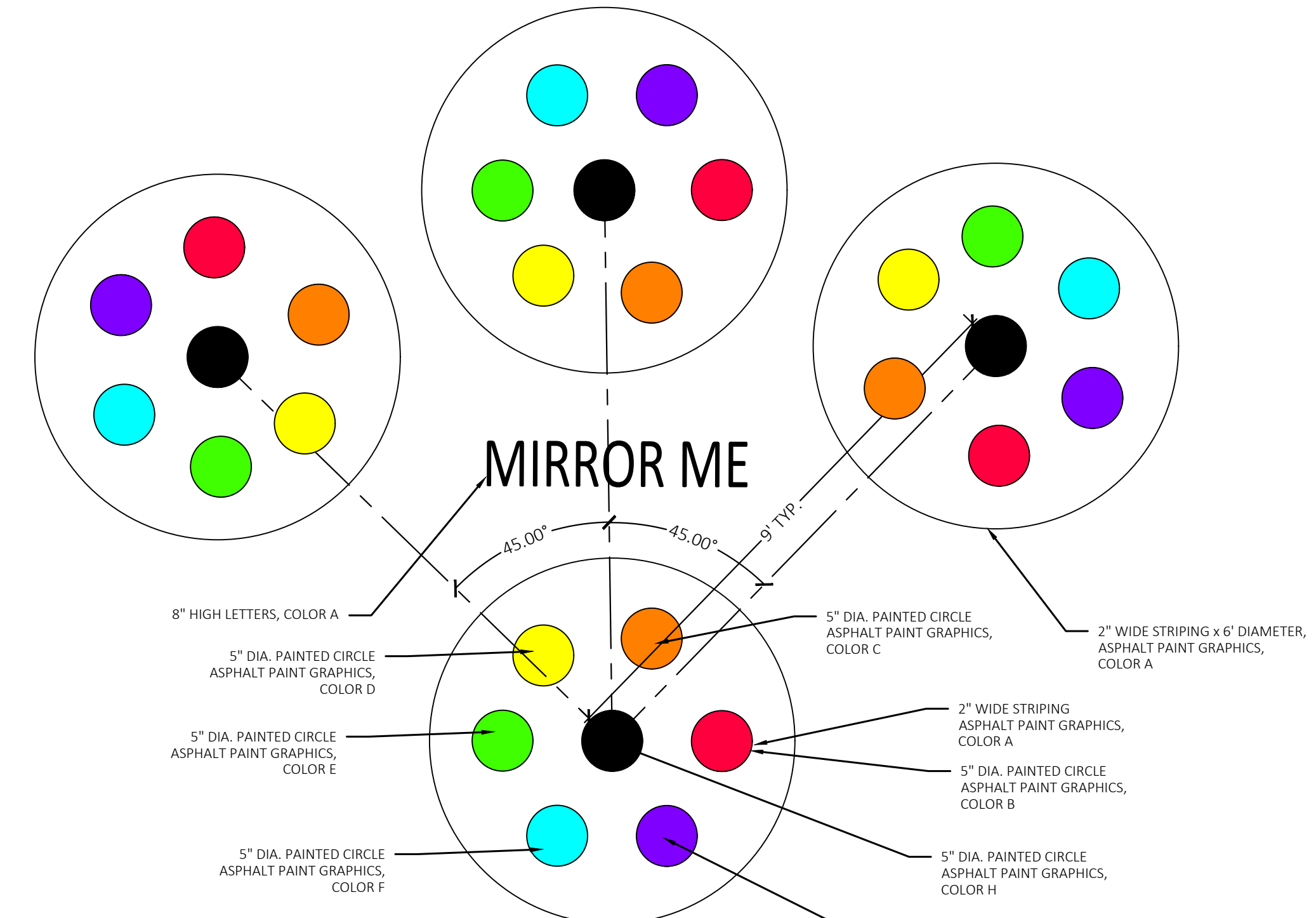
LAYOUT NOTES:

1. SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN 48326, (248)689-9090.
2. PAVEMENT DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT OR BACK OF CURB. PLASTIC EDGING IS MEASURED TO/FROM THE CENTER OF PIN.
3. DISCREPANCIES BETWEEN SITE AND PLANS SHOULD BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.
4. VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
5. PROVIDE BARRIER FREE PARKING SIGNS FOR ALL BARRIER FREE PARKING SPACES. ALL SIGNS TO COMPLY WITH THE MDOOT MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
6. SITE LAYOUT POINTS SHOULD BE ESTABLISHED AND PROTECTED FOR FUTURE SITE WORK.

PROPOSED FEATURES LEGEND:

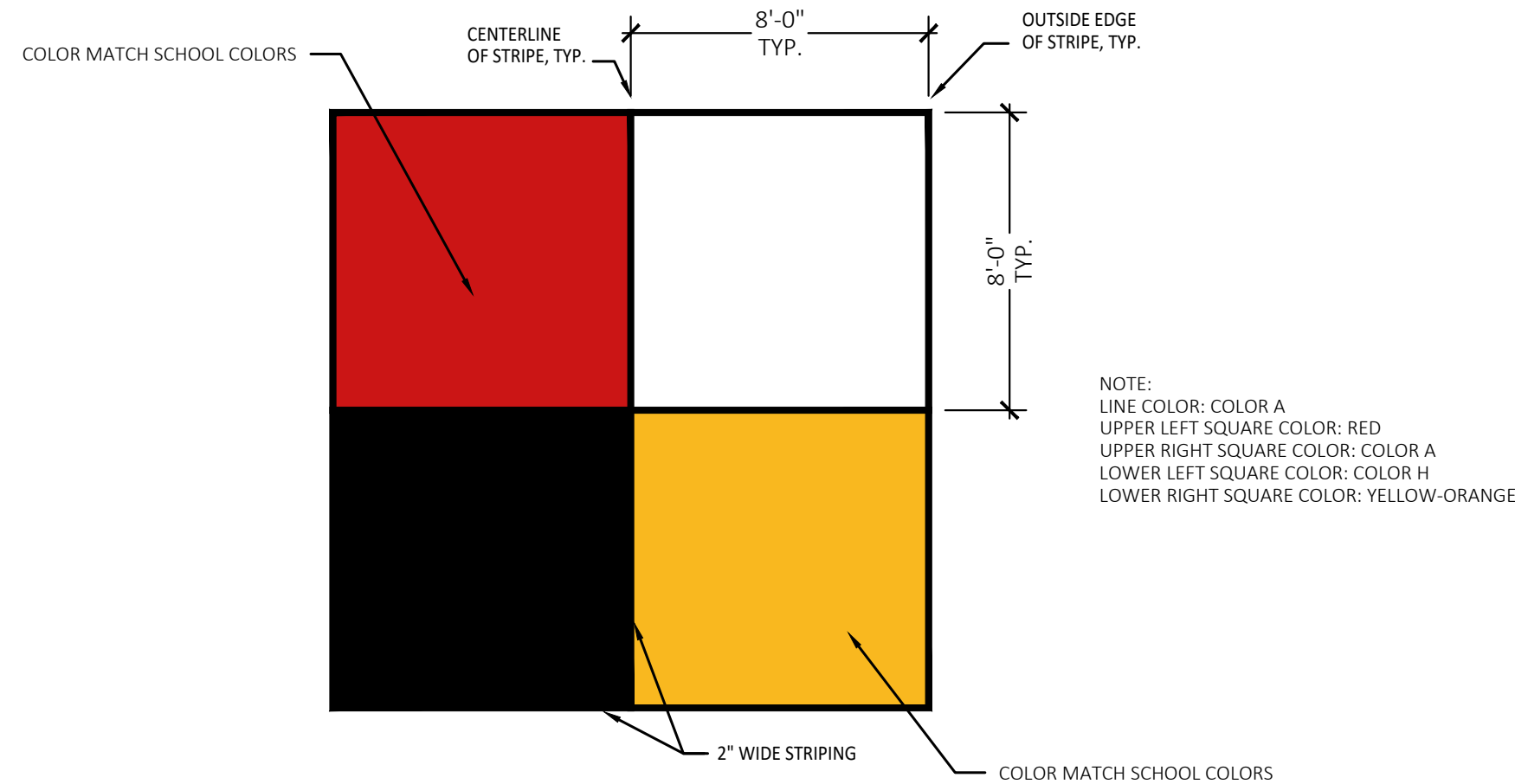
SYMBOL	DESCRIPTION	KEY	DESCRIPTION	DETAIL
	RESILIENT SURFACING (BY OTHERS)	A	STRAIGHT FACE CONCRETE CURB	6 /C4.0
	LOOSE FILL SAFETY SURFACING (BY OTHERS)	B	THICKENED EDGE CONCRETE	11 /C4.0
	N/A	C	RESILIENT SURFACING (BY OTHERS)	7 /C4.0
	N/A	D	LOOSE FILL SAFETY SURFACING (BY OTHERS)	3 & 9 /C4.0
	N/A	E	PLASTIC PLAY EDGING (BY OTHERS)	12, 13, & 18 /C4.0
	PLAY HILL, REFER TO CIVIL DRAWINGS	F	N/A	
	PLASTIC PLAY EDGING, BY OTHERS REFER TO PLAYGROUND CONTRACTOR'S DRAWINGS AND SPECS	G	CONCRETE WALK	2 /C4.0
	STRAIGHT FACE CONCRETE CURB	H	PLAY AREA ENTRANCE RAMP	16 /C4.0
	THICKENED EDGE CONCRETE	J	CONCRETE SAND BOX	15 /C4.0
	INTEGRAL WALK AND CURB	K	BASKETBALL HOOP POLE (BY OTHERS)	17 /C4.0
	BARRIER-FREE PLAY AREA ENTRANCE RAMP	L	N/A	
	CHAIN LINK FENCE, REFER TO CIVIL PLANS	M	N/A	
	ENLARGEMENT LIMIT LINE	N	N/A	
		P	N/A	

SIGNS	DESCRIPTION	SEE SPECS.
	COMMUNICATION BOARD; PURCHASED BY OWNER, INSTALLED BY SITE CONTRACTOR	



2 Mirror Me Detail

Not to Scale



3 4 Square Layout

Not to Scale

CONTRACTOR COORDINATION NOTES:

SITE CONTRACTOR AND PLAYGROUND CONTRACTOR ARE REQUIRED TO COORDINATE BOTH WITH EACH OTHER AND WITH CONSTRUCTION MANAGER. THE INSTALLATION PROCESS FOR THE PLAYGROUND SAFETY SURFACING SHOULD BE AS FOLLOWS:

- * SITE CONTRACTOR TO EXCAVATE AREA AS SHOWN ON CONSTRUCTION DOCUMENTS.
- * SITE CONTRACTOR TO INSTALL UNDERDRAINS AS SHOWN ON CONSTRUCTION DOCUMENTS. SITE CONTRACTOR TO USE LAYOUT SERVICES FROM CADD FILES FOR INSTALLATION TO ENSURE THAT THE UNDERDRAINS ARE INSTALLED IN THE CORRECT LOCATIONS.
- * THE PLAYGROUND CONTRACTOR WILL THEN INSTALL THE POSTS AND FOOTINGS FOR ALL EQUIPMENT.
- * THE SITE CONTRACTOR WILL THEN INSTALL THE DRAINAGE AGGREGATE, TAKING CARE TO NOT DAMAGE THE POSTS OR POWDERCOATING OF THE PLAY EQUIPMENT. THE SITE CONTRACTOR WILL ALSO INSTALL THE ADDITIONAL ENGINEERED FILL FOR THE RESILIENT SURFACING AREAS. THE SITE CONTRACTOR MUST COORDINATE THE DEPTHS WITH THE PLAYGROUND CONTRACTOR PRIOR TO INSTALLATION AS THE DEPTHS VARY BETWEEN PLAYGROUND CONTRACTORS.
- * THE PLAYGROUND CONTRACTOR WILL INSTALL THE GEOTEXTILE FABRIC, PLAYGROUND EQUIPMENT, AND SAFETY SURFACING.



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Landscape Architecture
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Campus & Institutional Planning
Camp Planning & Design

PROJECT TITLE

**Wattles
Elementary School
Playground Remodel
Bld Package No.01B**

**Troy School District
Troy, Michigan**

DRAWING TITLE

**Playground Layout
Enlargement Plans**

ISSUE DATES

10-03-2024	CONSTRUCTION DOCUMENTS
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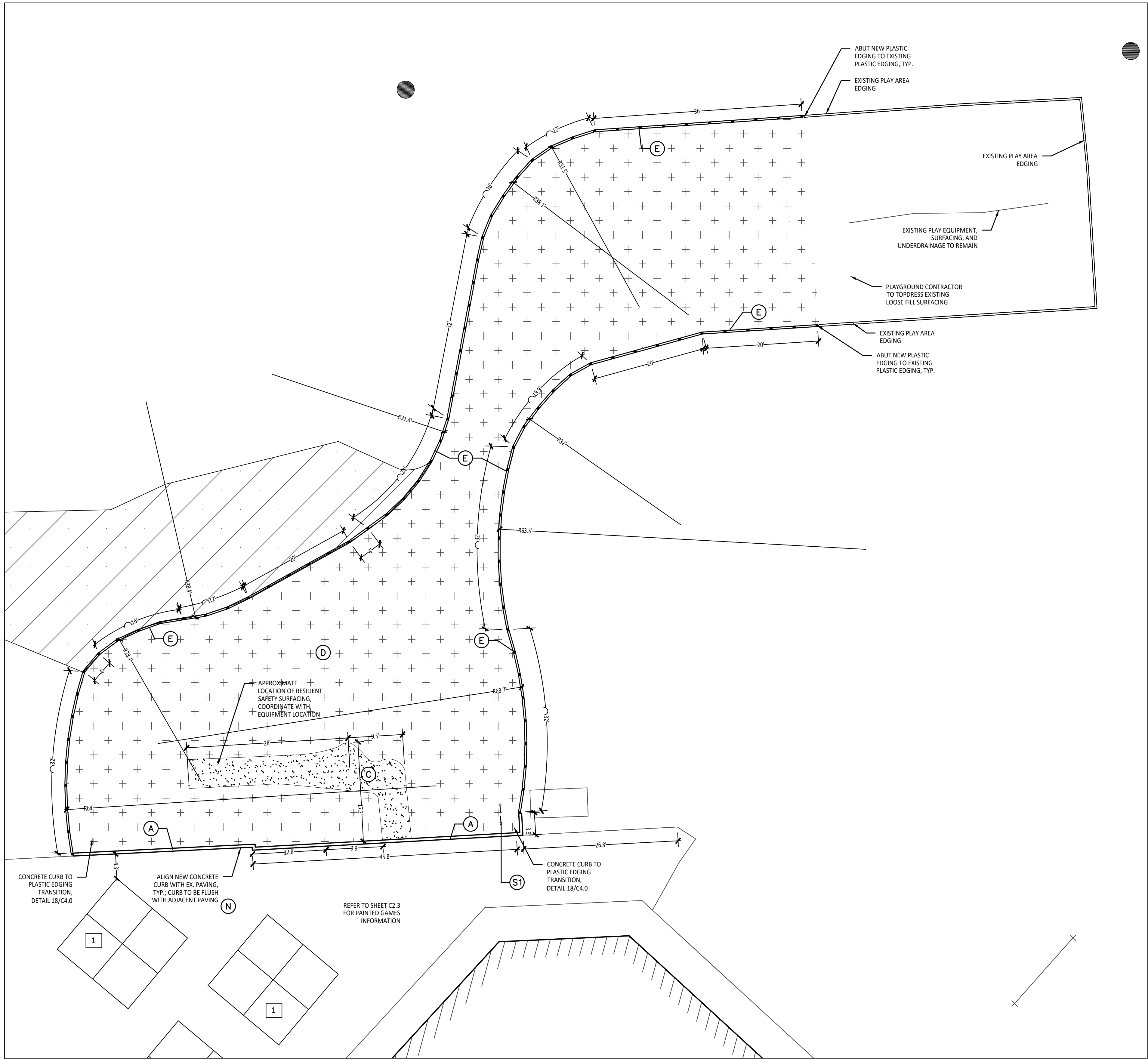
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PROJECT NO.

22097B

DRAWING NO.

C2.1



1 Playground Layout Enlargement Plan - Upper Elementary
Scale: 1" = 10'-0"

PROPOSED FEATURES LEGEND:

SYMBOL	DESCRIPTION	KEY	DESCRIPTION	DETAIL
	RESILIENT SURFACING (BY OTHERS)	(A)	STRAIGHT FACE CONCRETE CURB	6 / C4.0
	LOOSE FILL SAFETY SURFACING (BY OTHERS)	(B)	THICKENED EDGE CONCRETE	11 / C4.0
	N/A	(C)	RESILIENT SURFACING (BY OTHERS)	7 / C4.0
	N/A	(D)	LOOSE FILL SAFETY SURFACING (BY OTHERS)	3 & 9 / C4.0
	N/A	(E)	PLASTIC PLAY EDGING (BY OTHERS)	12, 13, & 18 / C4.0
	N/A	(F)	N/A	
	PLAY HILL, REFER TO CIVIL DRAWINGS	(G)	CONCRETE WALK	2 / C4.0
	PLASTIC PLAY EDGING, BY OTHERS REFER TO PLAYGROUND CONTRACTOR'S DRAWINGS AND SPECS	(H)	PLAY AREA ENTRANCE RAMP	16 / C4.0
	STRAIGHT FACE CONCRETE CURB	(J)	CONCRETE SAND BOX	15 / C4.0
	THICKENED EDGE CONCRETE	(K)	BASKETBALL HOOP POLE (BY OTHERS)	17 / C4.0
	INTEGRAL WALK AND CURB	(L)	N/A	
	BARrier-FREE PLAY AREA ENTRANCE RAMP	(M)	N/A	
	CHAIN LINK FENCE, REFER TO CIVIL PLANS	(N)	N/A	
	ENLARGEMENT LIMIT LINE	(P)	N/A	
		(S1)	COMMUNICATION BOARD; PURCHASED BY OWNER, INSTALLED BY SITE CONTRACTOR	10 / C4.0

PAINTED GAMES SCHEDULE:

SYMBOL	DESCRIPTION	DETAIL
	FOUR SQUARE	3 / C2.1
	BASKETBALL LANE LAYOUT	2 / C2.0
	SILLY TRACK	3 / C2.0
	MIRROR ME	2 / C2.1
	N/A	
	N/A	
	N/A	
	N/A	
	N/A	
	N/A	
	N/A	

CONTRACTOR COORDINATION NOTES:

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- * THE PLAYGROUND CONTRACTOR WILL INSTALL THE GEOTEXTILE FABRIC, PLAYGROUND EQUIPMENT, AND SAFETY SURFACING.

LAYOUT NOTES:

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5. PROVIDE BARRIER FREE PARKING SIGNS FOR ALL BARRIER FREE PARKING SPACES. ALL SIGNS TO COMPLY WITH THE MOST MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
6. SITE LAYOUT POINTS SHOULD BE ESTABLISHED AND PROTECTED FOR FUTURE SITE WORK.

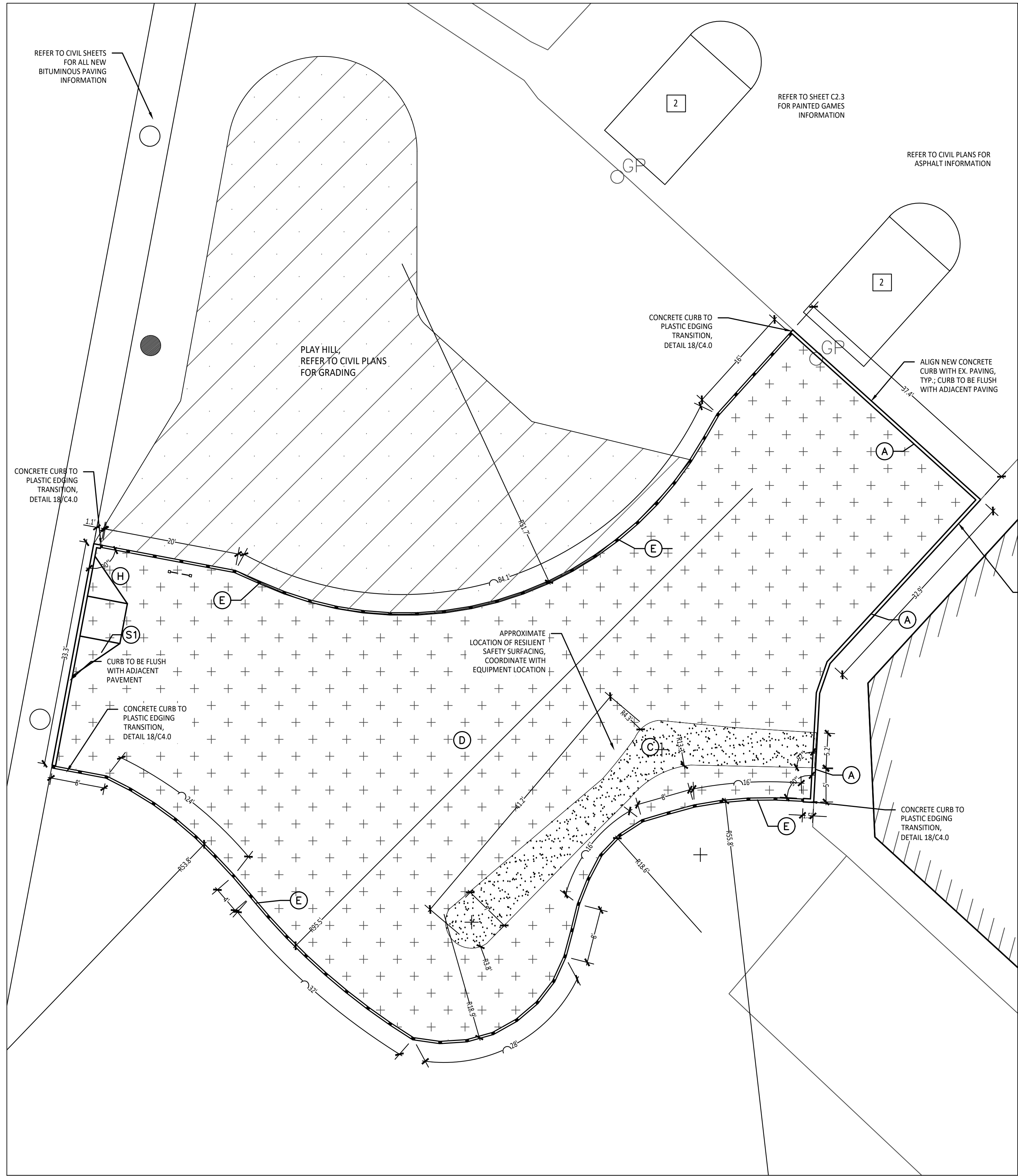
BARRIER-FREE NOTES

BARRIER-FREE PARKING AND ACCESSIBLE ROUTE(S) MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND MICHIGAN BARRIER-FREE CODE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

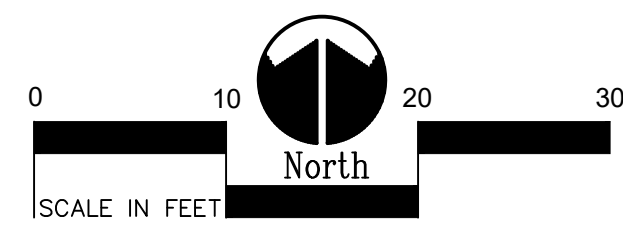
- 1:50 (2%) MINIMUM CROSS SLOPE ON ACCESSIBLE ROUTE
- NO CHANGES IN LEVEL GREATER THAN 1/2" ALONG ACCESSIBLE ROUTE
- 1:20 (5%) MAXIMUM LONGITUDINAL SLOPE ON ACCESSIBLE ROUTE (EXCEPT WHERE RAMPS ARE PROVIDED).
- 1:50 (2%) MAXIMUM SLOPE (IN ANY DIRECTION) IN B.F. PARKING AND ACCESS AISLES.

NOTE: VERIFY LOCATION OF NEW PLAYGROUND EQUIPMENT PRIOR TO INSTALLATION OF ANY CONCRETE CURB. CONCRETE CURB TO BE INSTALLED OUTSIDE OF FALL SAFETY ZONE OF EACH PIECE OF EQUIPMENT PER ASTM 1487-05 AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.

NOTE: PLAYGROUND EQUIPMENT AND SURFACING PURCHASE AND INSTALLATION IS UNDER SEPARATE CONTRACT AND IS NOT INCLUDED IN THIS BID PACKAGE. CONTRACTOR IS REQUIRED TO COORDINATE INSTALLATION OF PLAYGROUND EQUIPMENT AND SURFACING WITH PLAYGROUND INSTALLER PRIOR TO ANY EXCAVATION AND CONCRETE CURBING OR PAVING INSTALLATION.



2 Playground Layout Enlargement Plan - Lower Elementary
Scale: 1" = 10'-0"



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Landscape Architecture
Urban Planning
Parks & Recreation
Campus & Institutional Planning
Camp Planning & Design

PROJECT TITLE

**Wattles
Elementary School
Playground Remodel
Bld Package No.01B**

**Troy School District
Troy, Michigan**

DRAWING TITLE

**Playground Layout
Enlargement Plans**

ISSUE DATES

10-03-2024	CONSTRUCTION DOCUMENTS
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DATE: ISSUED FOR:

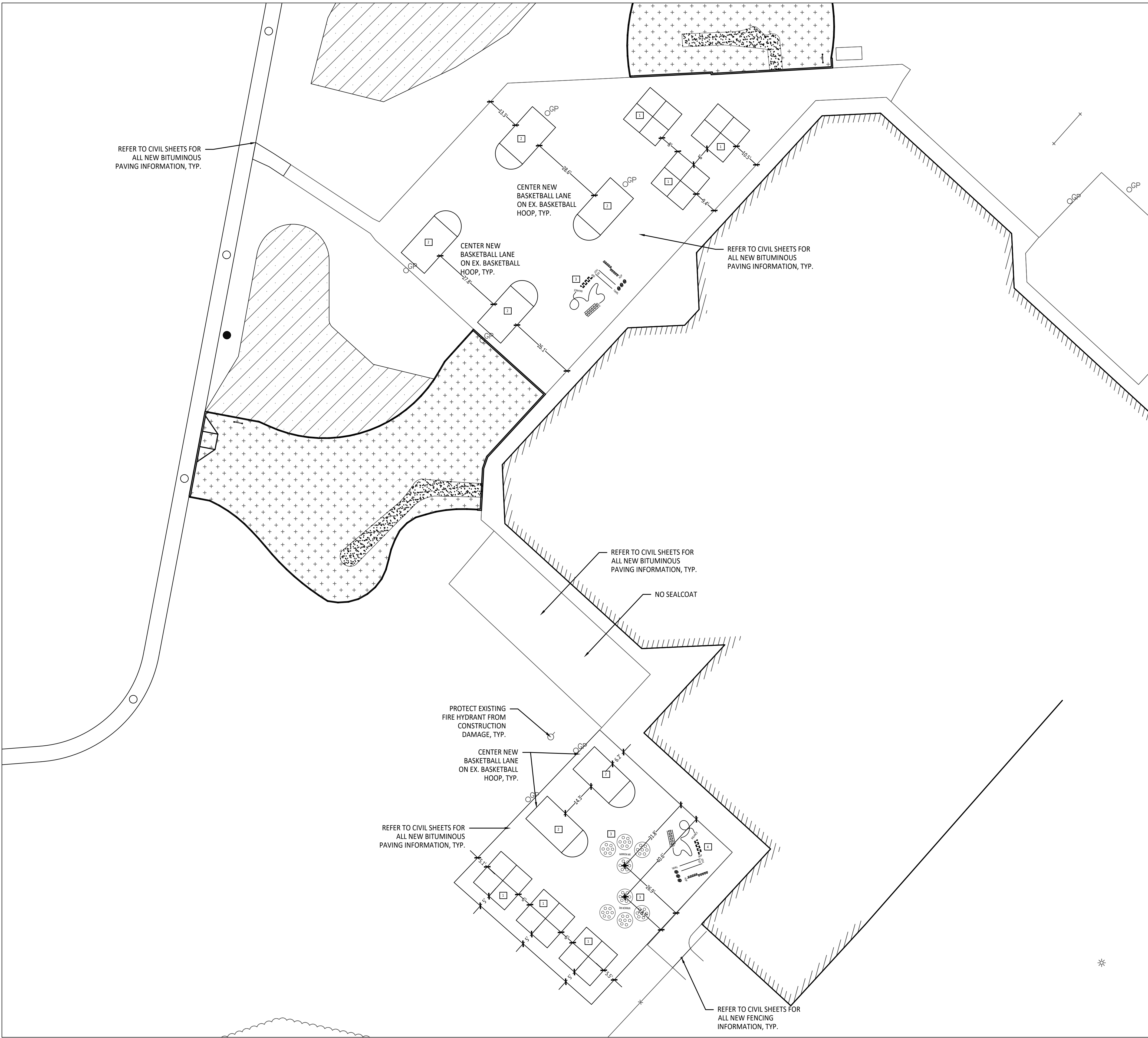
DRAWN	DID
CHECKED	DID
APPROVED	DID

PROJECT NO.

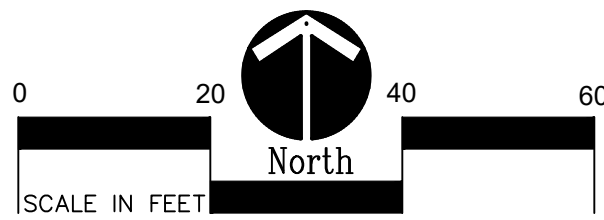
22097B

DRAWING NO.

C2.2



1 Painted Games Enlargement Plan
Scale: 1" = 20'-0"



BARRIER-FREE NOTES

BARRIER-FREE PARKING AND ACCESSIBLE ROUTE(S) MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND MICHIGAN BARRIER-FREE CODE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- 1:50 (2%) MAXIMUM CROSS SLOPE ON ACCESSIBLE ROUTE
- NO CHANGES IN LEVEL GREATER THAN 1/2" ALONG ACCESSIBLE ROUTE
- 1:20 (5%) MAXIMUM LONGITUDINAL SLOPE ON ACCESSIBLE ROUTE (EXCEPT WHERE RAMPS ARE PROVIDED)
- 1:50 (2%) MAXIMUM SLOPE (IN ANY DIRECTION) IN B.F. PARKING AND ACCESS AISLES

NOTE: VERIFY LOCATION OF NEW PLAYGROUND EQUIPMENT PRIOR TO INSTALLATION OF ANY CONCRETE CURB. CONCRETE CURB TO BE INSTALLED OUTSIDE OF FALL SAFETY ZONE OF EACH PIECE OF EQUIPMENT PER ASTM 1487-05 AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.

NOTE: PLAYGROUND EQUIPMENT AND SURFACING PURCHASE AND INSTALLATION IS UNDER SEPARATE CONTRACT AND IS NOT INCLUDED IN THIS BID PACKAGE. CONTRACTOR IS REQUIRED TO COORDINATE INSTALLATION OF PLAYGROUND EQUIPMENT AND SURFACING WITH PLAYGROUND INSTALLER PRIOR TO ANY EXCAVATION AND CONCRETE CURBING OR PAVING INSTALLATION.

LAYOUT NOTES:

1. SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN 48326, (248)689-9090.
2. PAVEMENT DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT OR BACK OF CURB. PLASTIC EDGING IS MEASURED TO/FROM CENTER OF PIN.
3. DISCREPANCIES BETWEEN SITE AND PLANS SHOULD BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.
4. VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
5. PROVIDE BARRIER FREE PARKING SIGNS FOR ALL BARRIER FREE PARKING SPACES. ALL SIGNS TO COMPLY WITH THE MDOT MICHIGAN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
6. SITE LAYOUT POINTS SHOULD BE ESTABLISHED AND PROTECTED FOR FUTURE SITE WORK.

PROPOSED FEATURES LEGEND:

SYMBOL	DESCRIPTION	KEY	DESCRIPTION	DETAIL
	RESILIENT SURFACING (BY OTHERS)	(A)	STRAIGHT FACE CONCRETE CURB	6 /C4.0
	LOOSE FILL SAFETY SURFACING (BY OTHERS)	(B)	THICKENED EDGE CONCRETE	11 /C4.0
	N/A	(C)	RESILIENT SURFACING (BY OTHERS)	7 /C4.0
	N/A	(D)	LOOSE FILL SAFETY SURFACING (BY OTHERS)	3 & 9 /C4.0
	N/A	(E)	PLASTIC PLAY EDGING (BY OTHERS)	12, 13, & 18 /C4.0
	N/A	(F)	N/A	N/A
	N/A	(G)	CONCRETE WALK	2 /C4.0
	N/A	(H)	PLAY AREA ENTRANCE RAMP	16 /C4.0
	N/A	(J)	CONCRETE SAND BOX	15 /C4.0
	N/A	(K)	BASKETBALL HOOP POLE (BY OTHERS)	17 /C4.0
	N/A	(L)	N/A	N/A
	N/A	(M)	N/A	N/A
	N/A	(N)	N/A	N/A
	N/A	(P)	N/A	N/A
	PLAY HILL, REFER TO CIVIL DRAWINGS			
	PLASTIC PLAY EDGING, BY OTHERS REFER TO PLAYGROUND CONTRACTOR'S DRAWINGS AND SPECS			
	STRAIGHT FACE CONCRETE CURB			
	THICKENED EDGE CONCRETE			
	INTEGRAL WALK AND CURB			
	BARRIER-FREE PLAY AREA ENTRANCE RAMP			
	CHAIN LINK FENCE, REFER TO CIVIL PLANS			
	ENLARGEMENT LIMIT LINE			

SIGNS		
(S)	COMMUNICATION BOARD; PURCHASED BY OWNER, INSTALLED BY SITE CONTRACTOR	SEE SPECS.

PAINTED GAMES SCHEDULE:

SYMBOL	DESCRIPTION	DETAIL
1	FOUR SQUARE	3/C2.1
2	BASKETBALL LANE LAYOUT	2/C2.0
3	SILLY TRACK	3/C2.0
4	MIRROR ME	2/C2.1
5	N/A	
6	N/A	
7	N/A	
8	N/A	
9	N/A	
10	N/A	
11	N/A	

CONTRACTOR COORDINATION NOTES:

SITE CONTRACTOR AND PLAYGROUND CONTRACTOR ARE REQUIRED TO COORDINATE BOTH WITH EACH OTHER AND WITH CONSTRUCTION MANAGER. THE INSTALLATION PROCESS FOR THE PLAYGROUND SAFETY SURFACING SHOULD BE AS FOLLOWS:

- * SITE CONTRACTOR TO EXCAVATE AREA AS SHOWN ON CONSTRUCTION DOCUMENTS.
- * SITE CONTRACTOR TO INSTALL UNDERDRAINS AS SHOWN ON CONSTRUCTION DOCUMENTS. SITE CONTRACTOR TO USE LAYOUT SERVICES FROM CADD FILES FOR INSTALLATION TO ENSURE THAT THE UNDERDRAINS ARE INSTALLED IN THE CORRECT LOCATIONS.
- * THE PLAYGROUND CONTRACTOR WILL THEN INSTALL THE POSTS AND FOOTINGS FOR ALL EQUIPMENT.
- * THE SITE CONTRACTOR WILL THEN INSTALL THE DRAINAGE AGGREGATE, TAKING CARE TO NOT DAMAGE THE POSTS OR POWDERCOATING OF THE PLAY EQUIPMENT. THE SITE CONTRACTOR WILL ALSO INSTALL THE ADDITIONAL ENGINEERED FILL FOR THE RESILIENT SURFACING AREAS. THE SITE CONTRACTOR MUST COORDINATE THE DEPTHS WITH THE PLAYGROUND CONTRACTOR PRIOR TO INSTALLATION AS THE DEPTHS VARY BETWEEN PLAYGROUND CONTRACTORS.
- * THE PLAYGROUND CONTRACTOR WILL INSTALL THE GEOTEXTILE FABRIC, PLAYGROUND EQUIPMENT, AND SAFETY SURFACING.



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Landscape Architecture
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PROJECT TITLE

**Wattles
Elementary School
Playground Remodel
Bld Package No.01B**

**Troy School District
Troy, Michigan**

DRAWING TITLE

**Playground Layout
Enlargement Plans**

ISSUE DATES

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10-03-2024	CONSTRUCTION DOCUMENTS

DATE: ISSUED FOR:

DRAWN DID

CHECKED DID

APPROVED DID

PROJECT NO.

22097B

DRAWING NO.

C2.3

GRADING NOTES:

1. SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN, 48326, (248)689-9090.
2. VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
3. ALL NEW PAVEMENTS AND TURF AREAS ARE INTENDED TO DRAIN FREELY WITH NO PONDING. IF THIS CANNOT BE ACHIEVED USING THE PROPOSED GRADES, NOTIFY THE OWNER'S REPRESENTATIVE IMMEDIATELY FOR RESOLUTION.
4. ALL NEW PAVEMENT ELEVATIONS AT EXTERIOR DOORS SHALL MATCH EXISTING FINISH FLOOR ELEVATIONS, TYPICAL.
5. ADJUST TOP OF EXISTING MANHOLES, CATCH BASINS, VAULT COVERS, ETC. TO NEW FINISH GRADE AS REQUIRED.
6. SEE SITE CIVIL PLANS FOR ALL ADDITIONAL SITE UTILITY DEMOLITION AND CONSTRUCTION.
7. ALL TOPSOIL AND EXCESS FILL MATERIAL SHALL BE STOCKPILED ON SITE SEPARATELY FOR LATER RE-USE. LOCATE STOCKPILES IN AREAS AS DIRECTED BY CONSTRUCTION MANAGER AND PROTECT FROM EFFECTS OF EROSION.

PROPOSED FEATURES LEGEND:

695

EXISTING CONTOURS

+711.50
2007
CONC.

EXISTING SPOT ELEVATIONS

710

PROPOSED CONTOURS

2%

DIRECTION AND PERCENTAGE OF SLOPE

NEW STORMWATER STRUCTURE, REFER TO CIVIL PLANS

PLAYGROUND UNDER DRAIN PIPE,
REFER TO DETAIL 14/C4.0

INV

INVERT ELEVATION

IMPORTANT NOTE

GENERAL EARTHWORK NOTE:

CUTS AND FILLS AT THIS SITE MAY OR MAY NOT BALANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE REQUIRED EARTHWORK VOLUMES BASED ON THE GRADING PLAN SHOWN. IF FILL IS REQUIRED, THE CONTRACTOR SHALL INCLUDE THE REQUIRED VOLUME OF IMPORTED CLASS II SAND IN THE BASE BID PROPOSAL. IF EXCESS SOILS NEED TO BE SPOILED, THE CONTRACTOR SHALL INCLUDE HAULING AND SPOILING SOILS OFF SITE IN THE BASE BID PROPOSAL. NO CONTRACT COST ADJUSTMENTS WILL BE CONSIDERED FOR EARTHWORK REQUIRED TO BALANCE THE SITE.

IMPORTANT NOTE

BARRIER-FREE NOTES

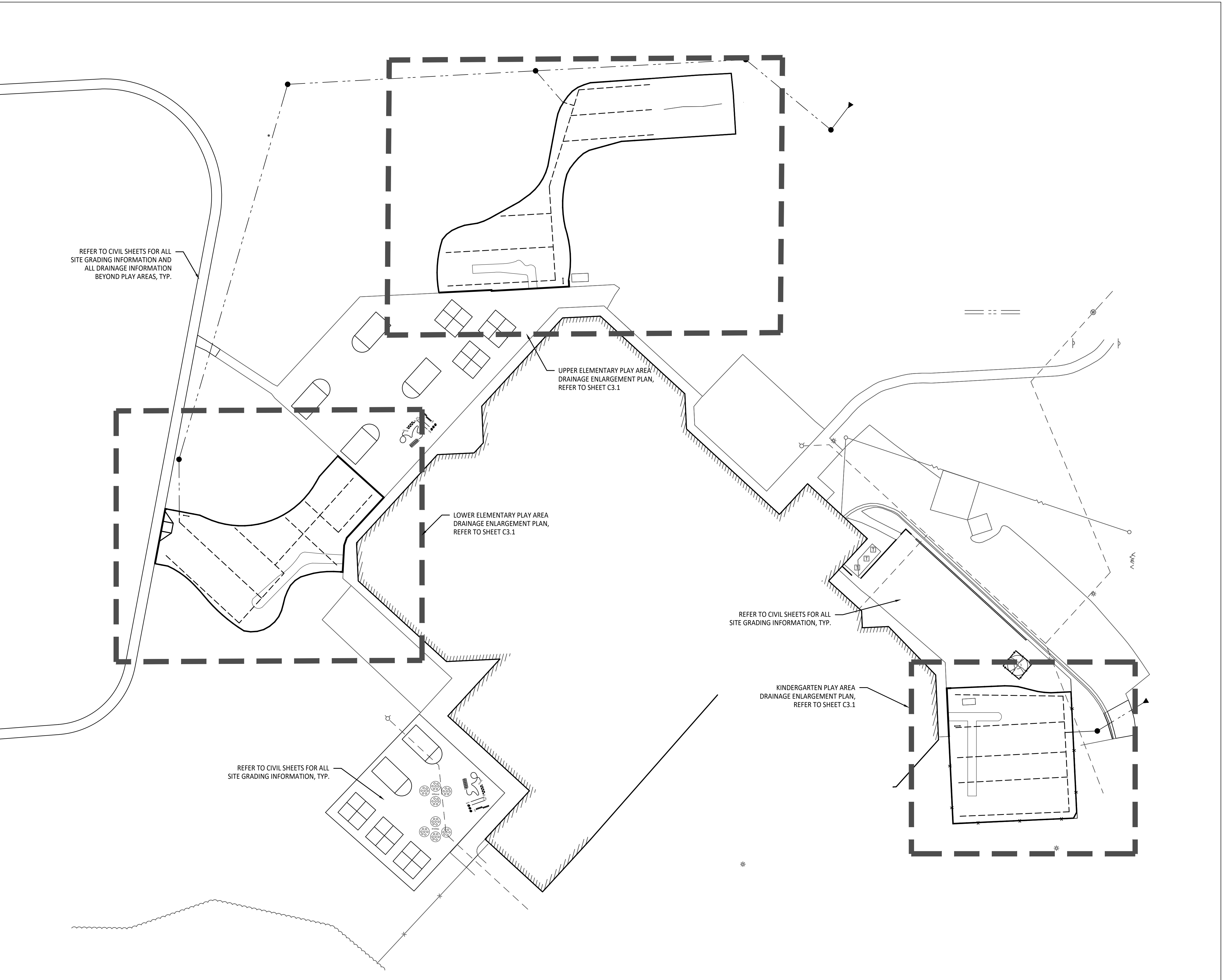
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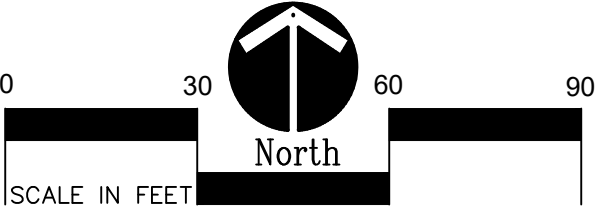
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1 Overall Playground Drainage Plan
1" = 30'-0"



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Landscape Architecture
Urban Planning
Parks & Recreation
Campus & Institutional Planning
Camp Planning & Design

PROJECT TITLE

**Wattles
Elementary School
Playground Remodel
Bld Package No.01B**

**Troy School District
Troy, Michigan**

DRAWING TITLE

**Overall Playground
Drainage Plan**

ISSUE DATES

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10-03-2024 CONSTRUCTION DOCUMENTS

DATE: ISSUED FOR:

DRAWN DID

CHECKED DID

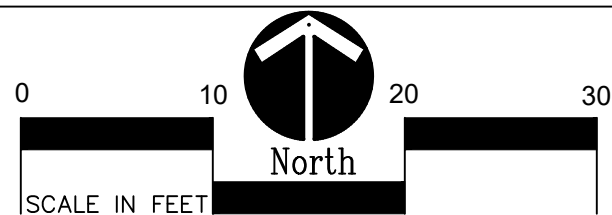
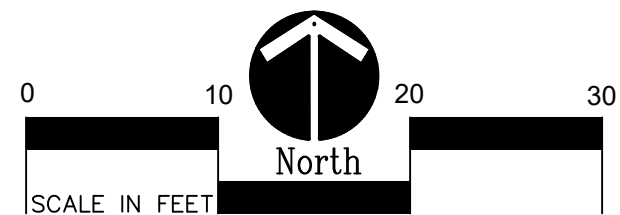
APPROVED DID

PROJECT NO.

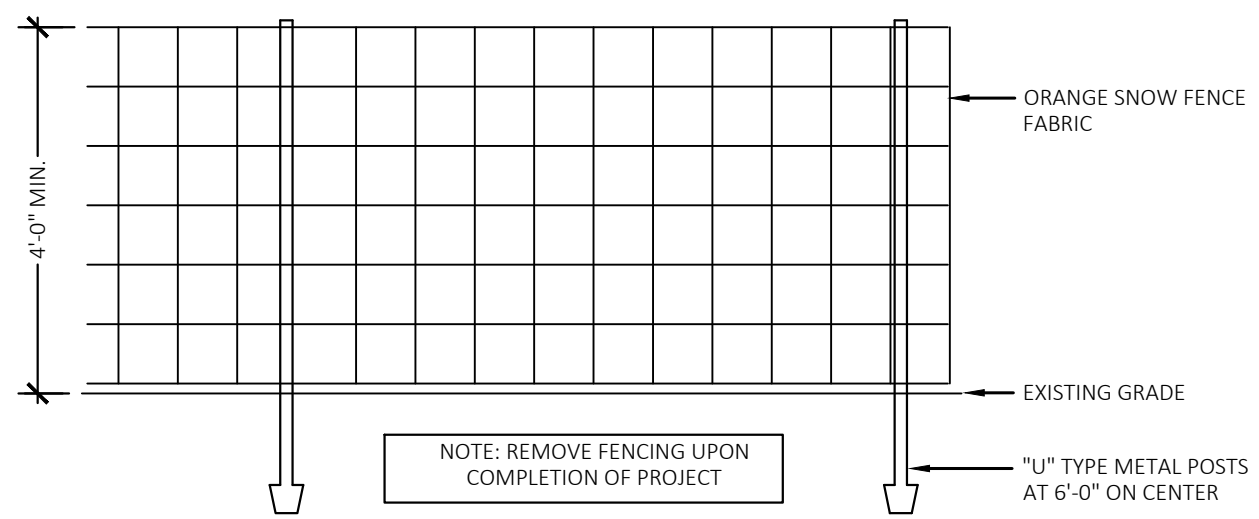
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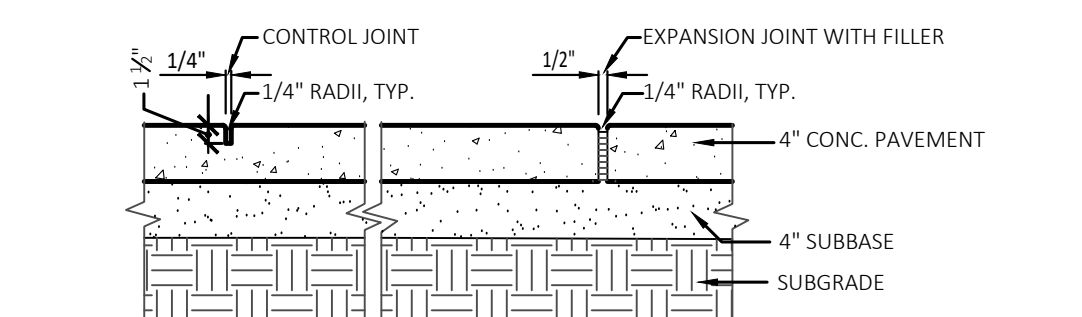
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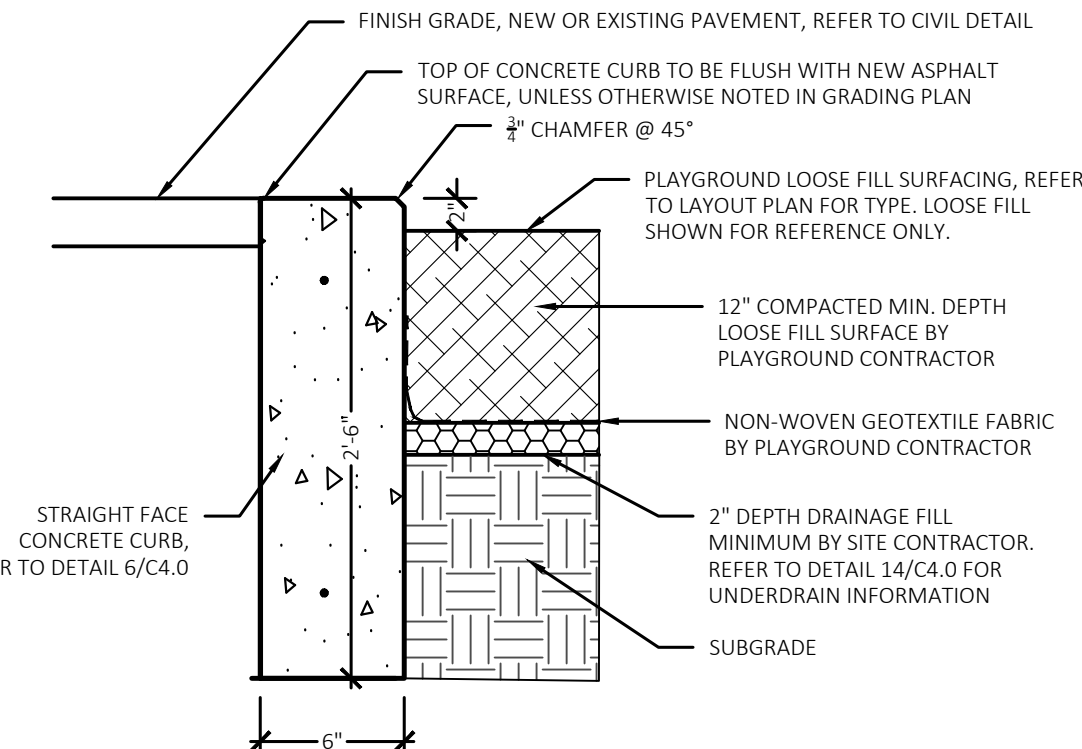
C3.1



1 Tree Protection Fencing Detail
NOT TO SCALE



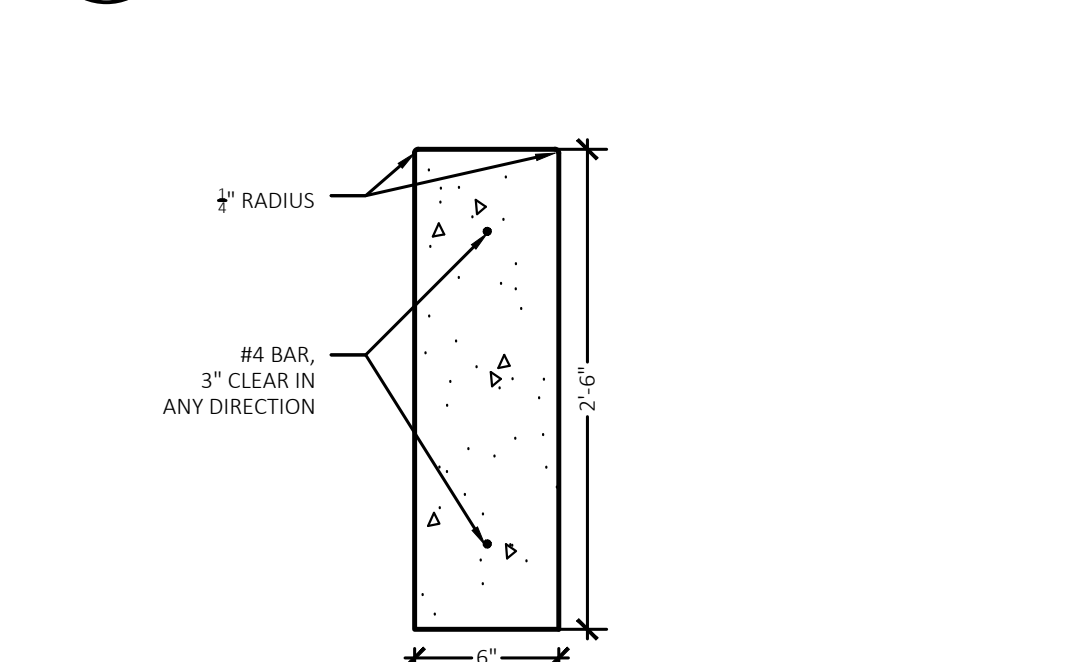
2 Section-Conc. Paving + Jointing
NOT TO SCALE



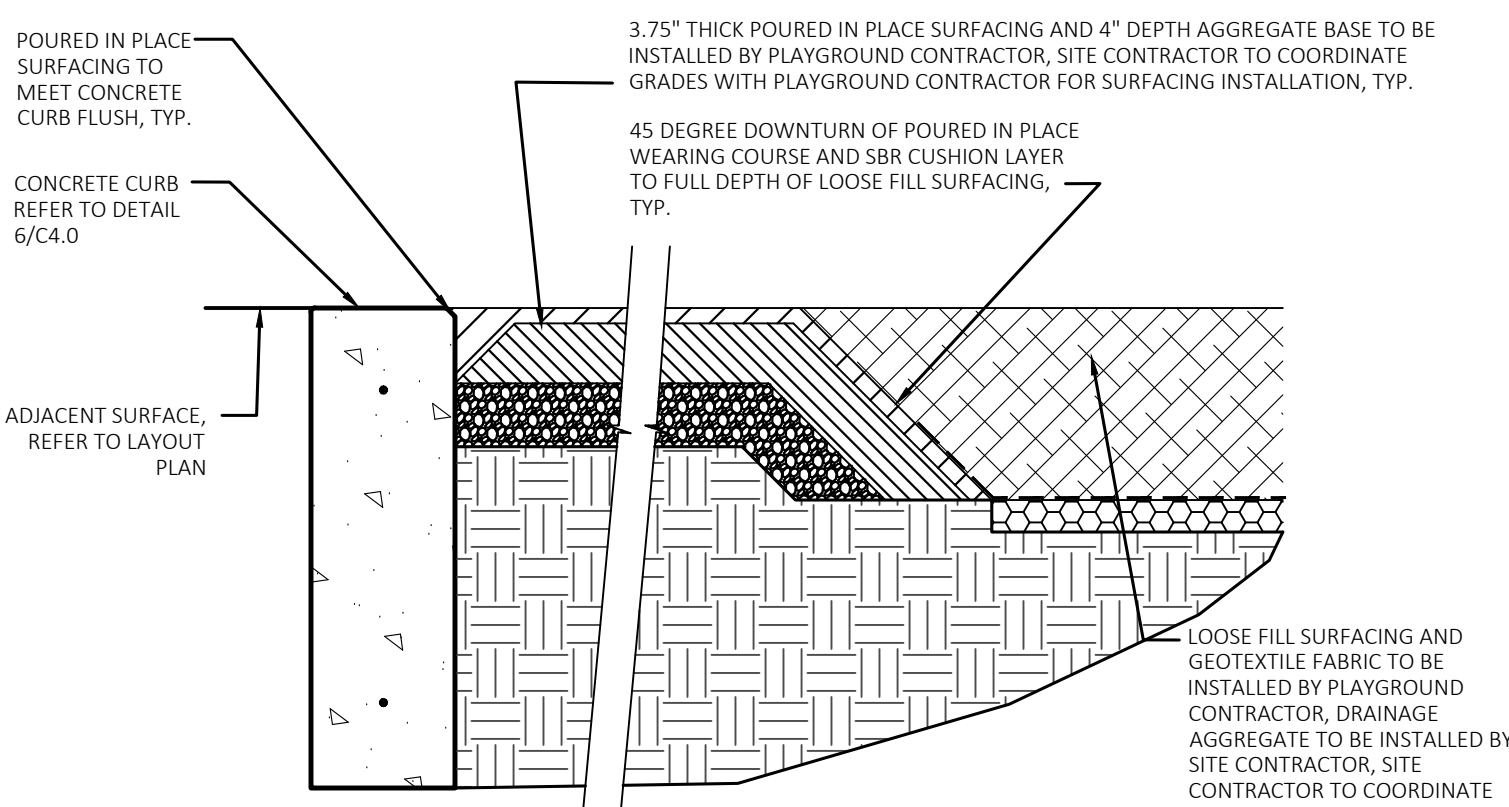
3 New Concrete Curb to Paving Loose Fill Play Surfacing Detail
Not to Scale

4 N/A

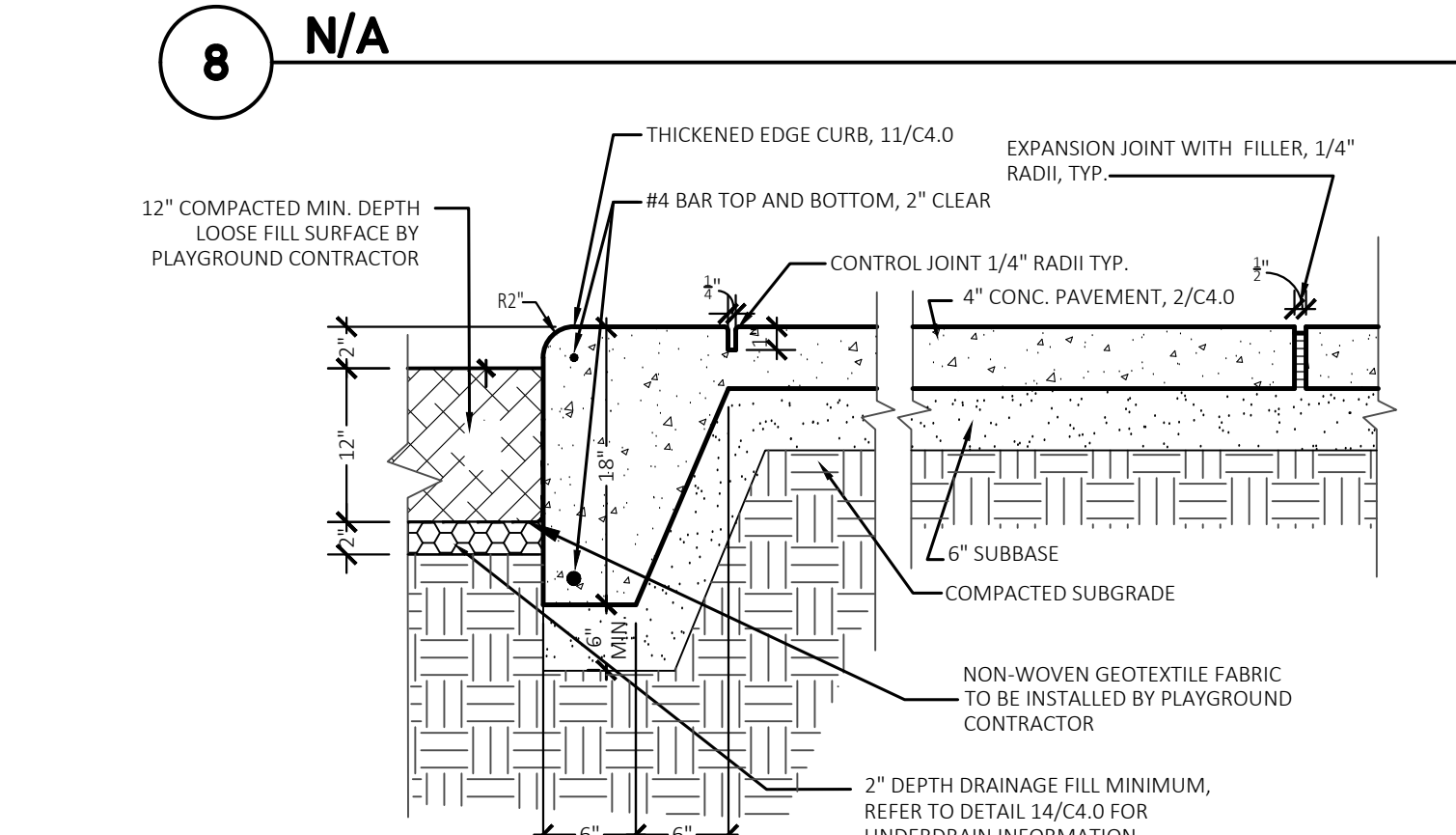
5 N/A



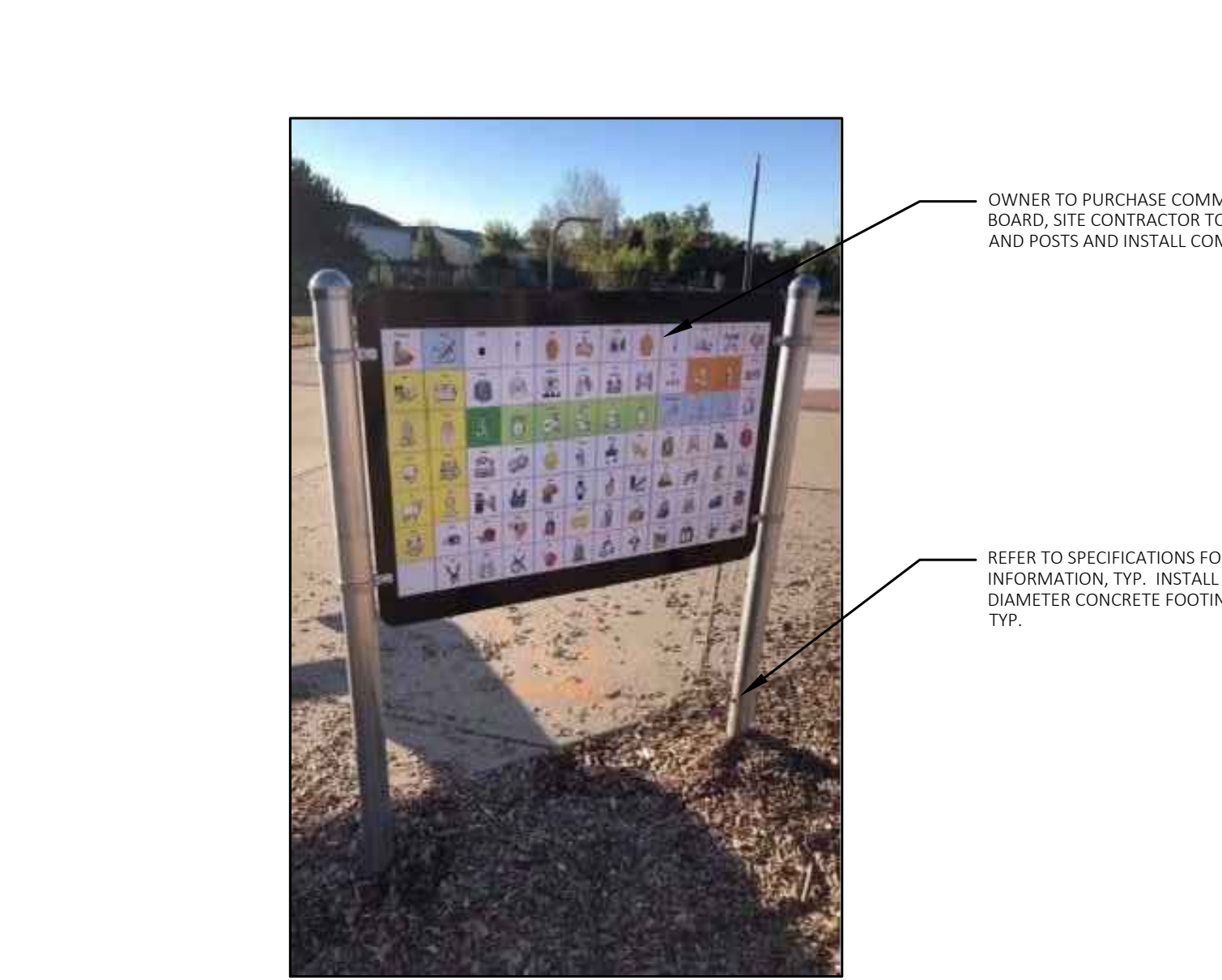
6 Straight Face Concrete Curb Detail
NOT TO SCALE



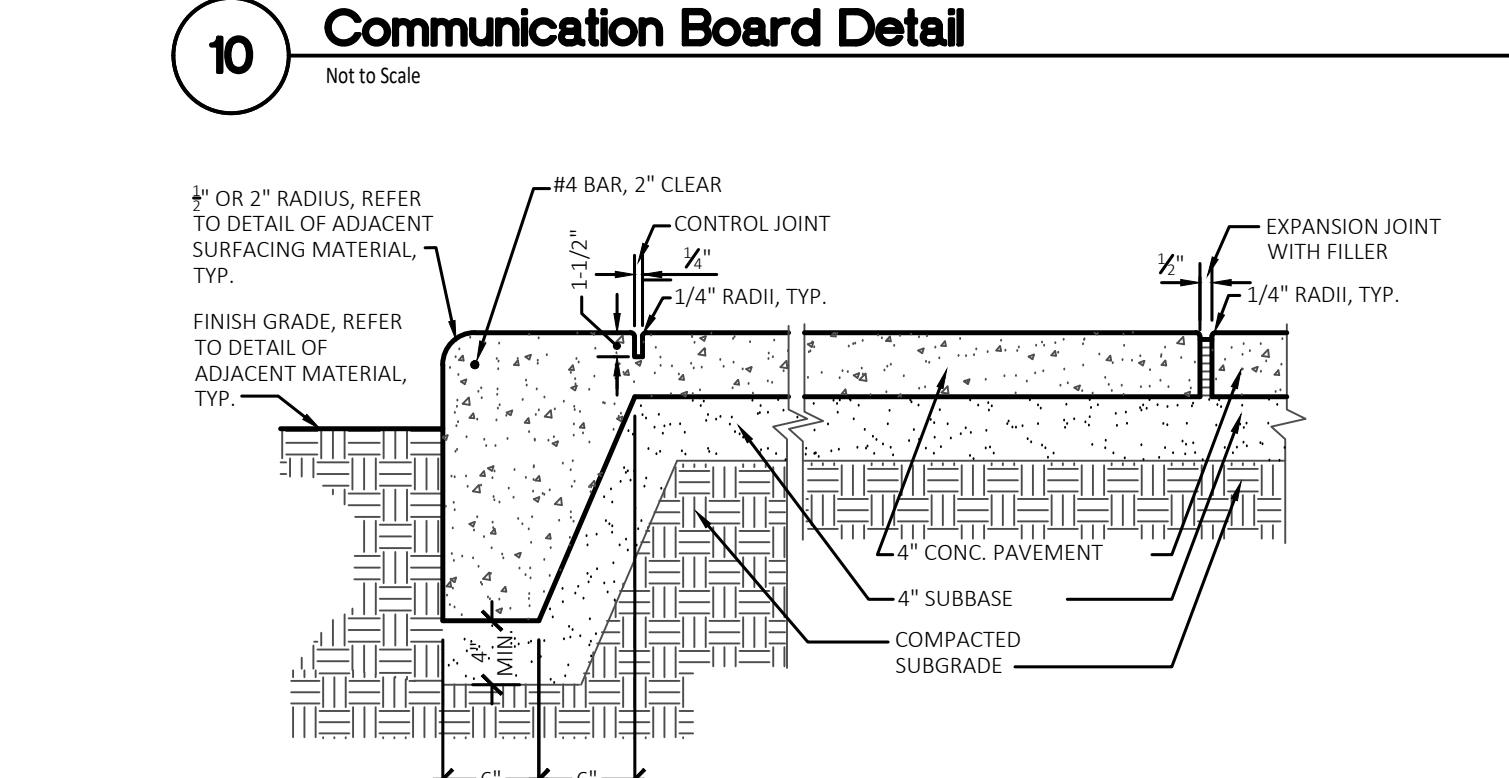
7 Poured in Place Surfacing Transition to Loose Fill Surfacing and Concrete Curb Detail
NOT TO SCALE



8 N/A

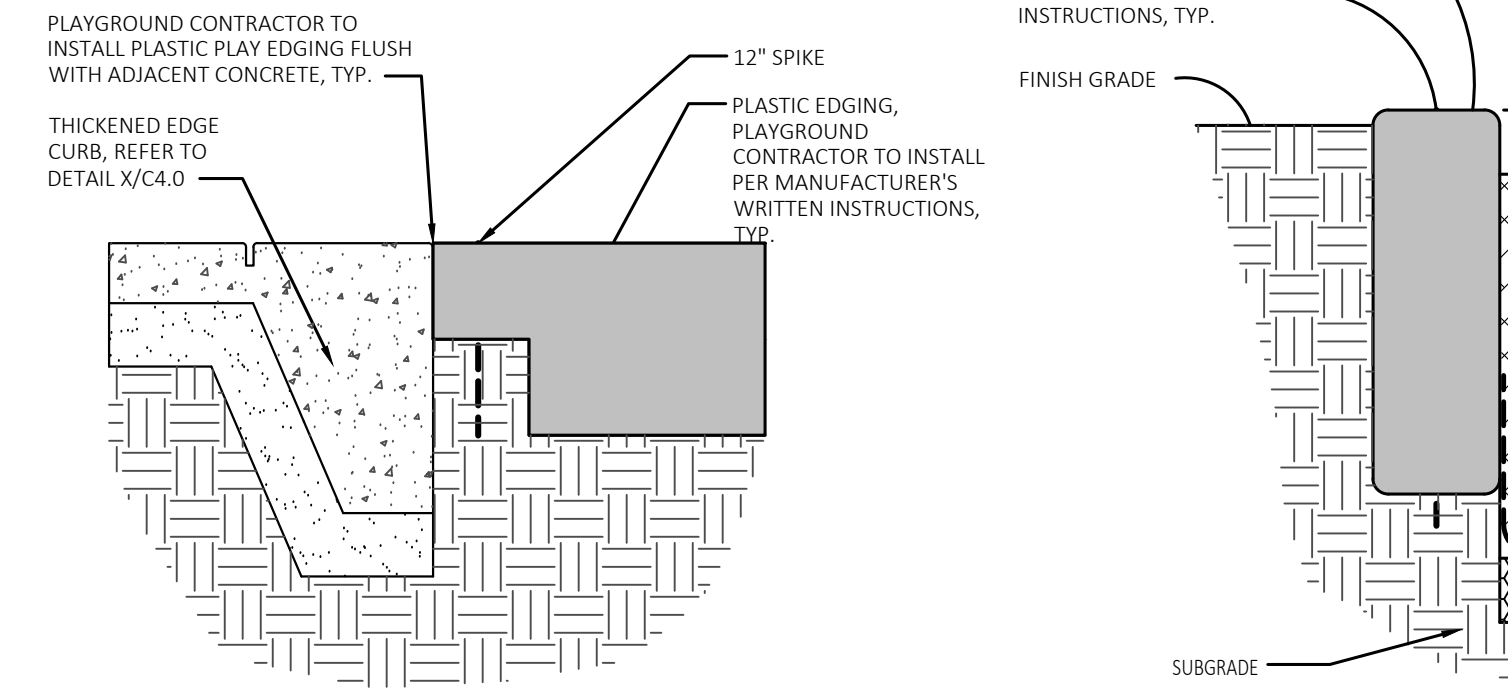


9 Loose Fill Surfacing to Thickened Edge Concrete Detail
NOT TO SCALE

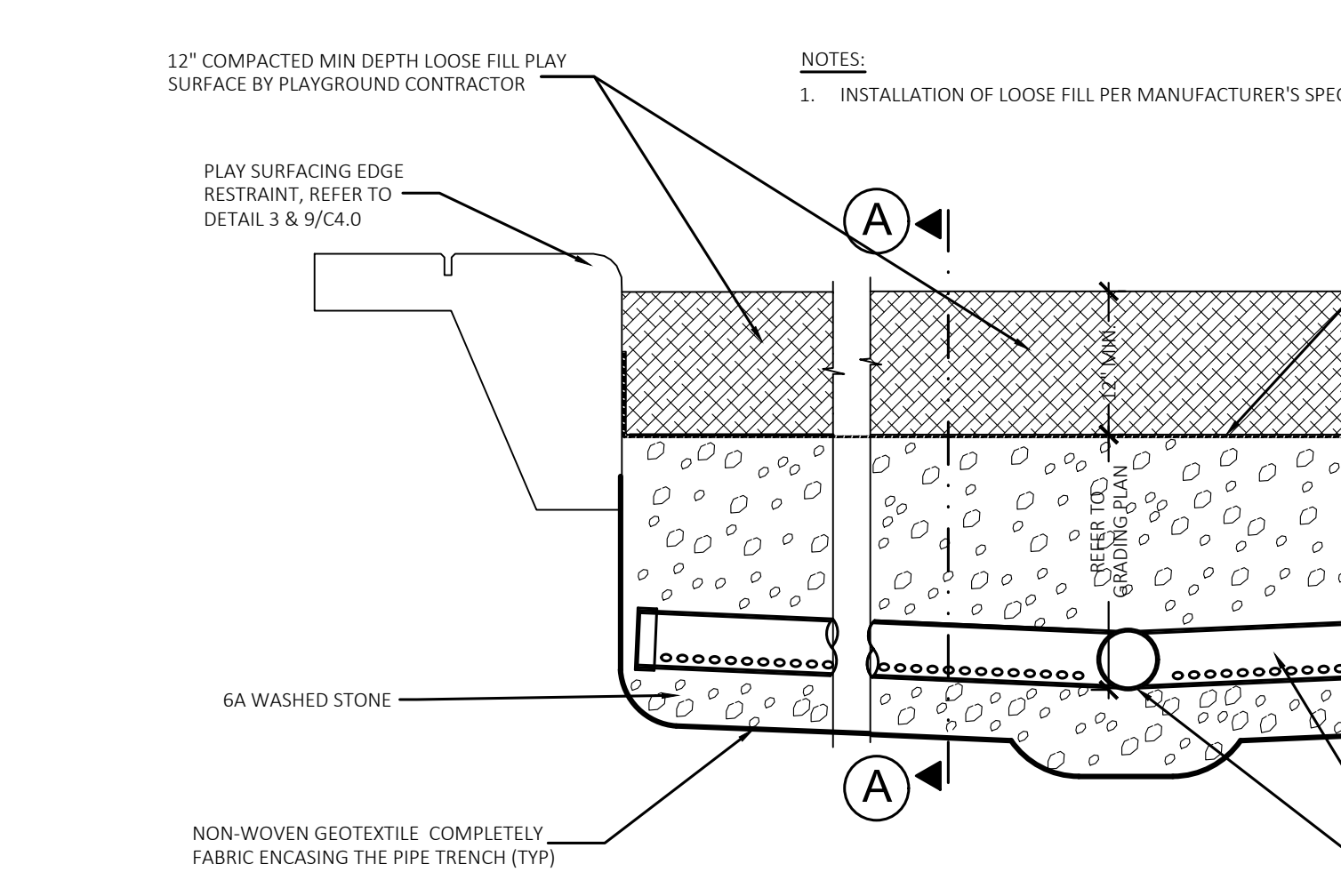


10 Communication Board Detail
Not to Scale

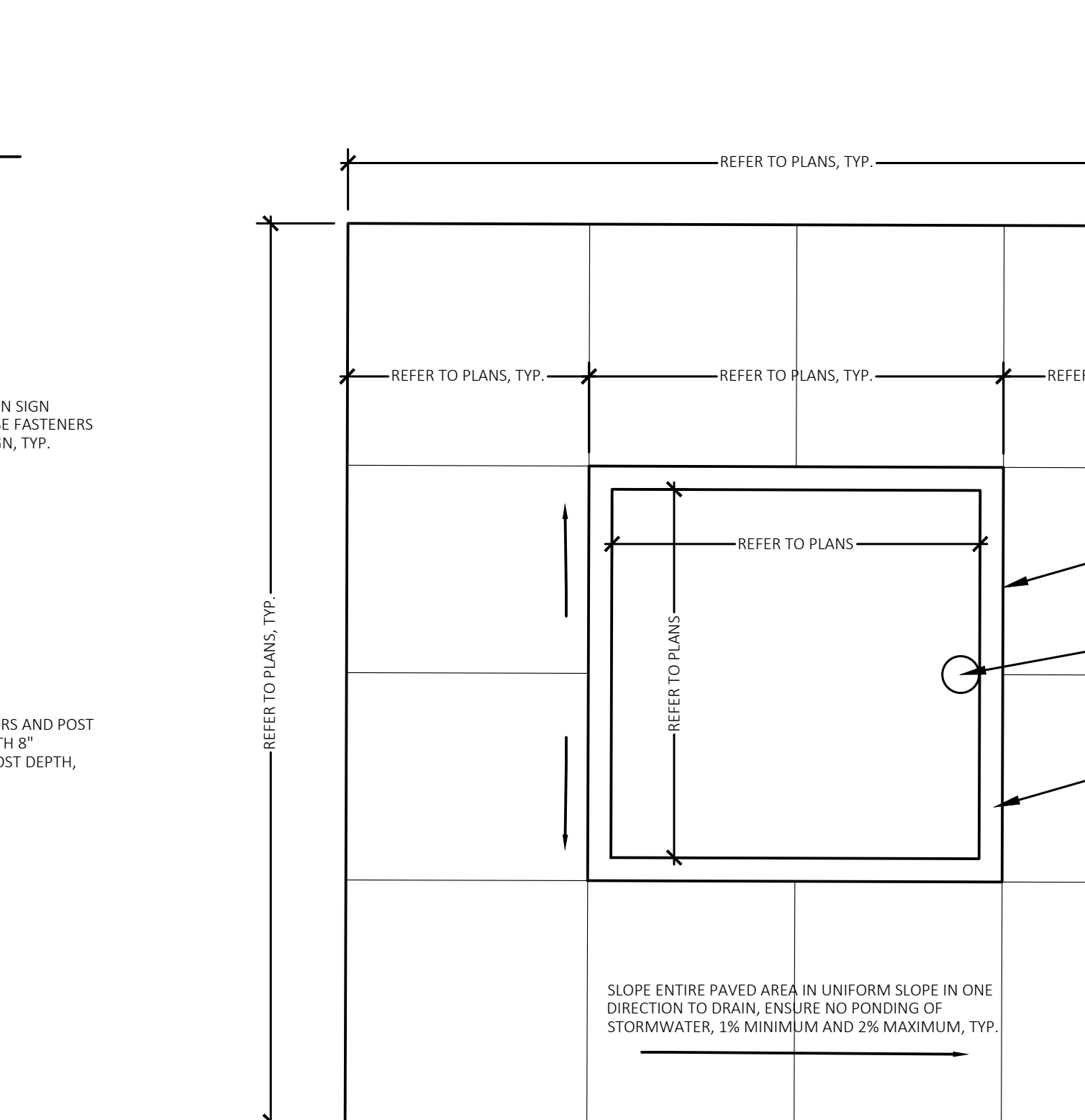
11 Thickened Edge Curb Detail
Not to Scale



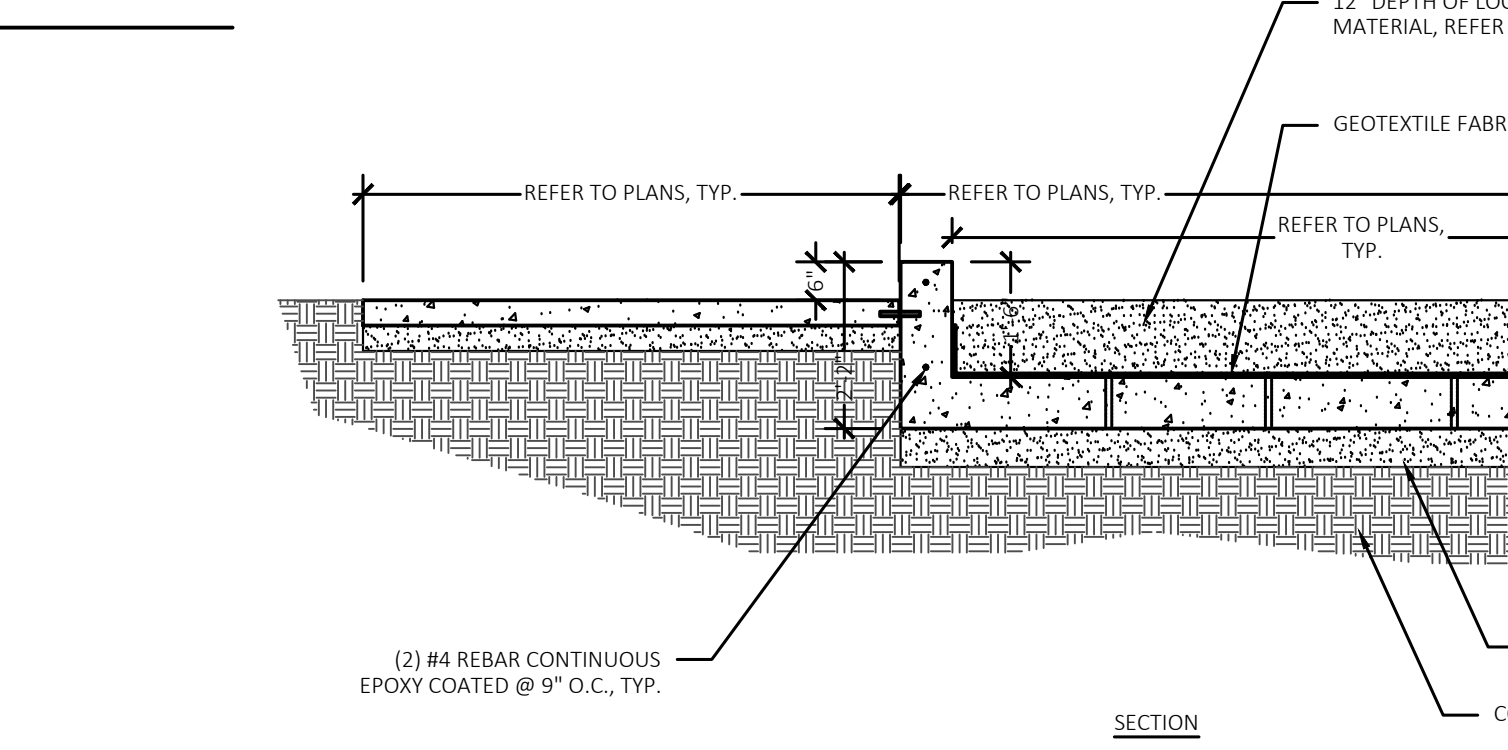
12 Thickened Edge Curb to Plastic Edging Transition Detail
Not to Scale



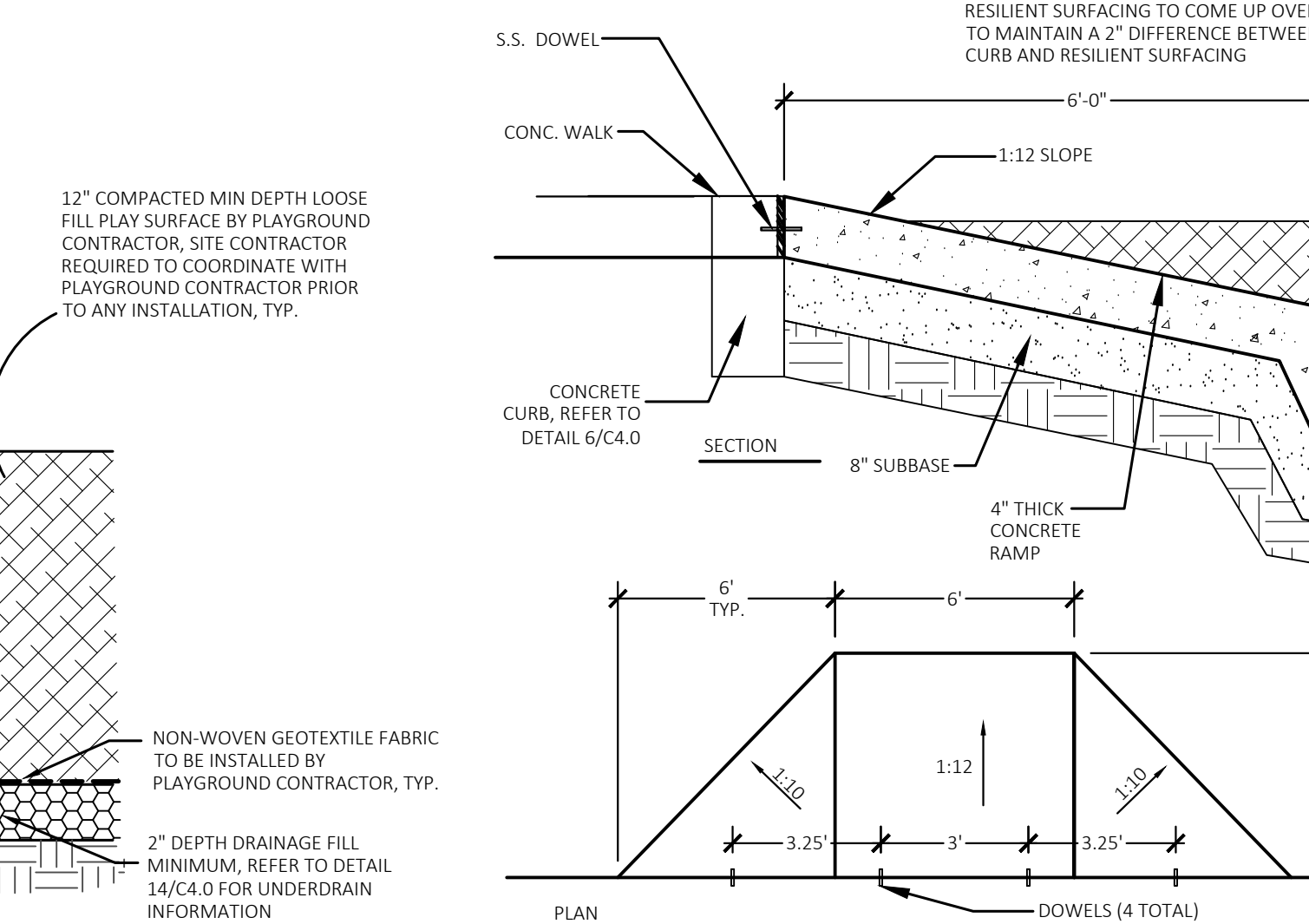
13 Plastic Edging Detail
Not to Scale



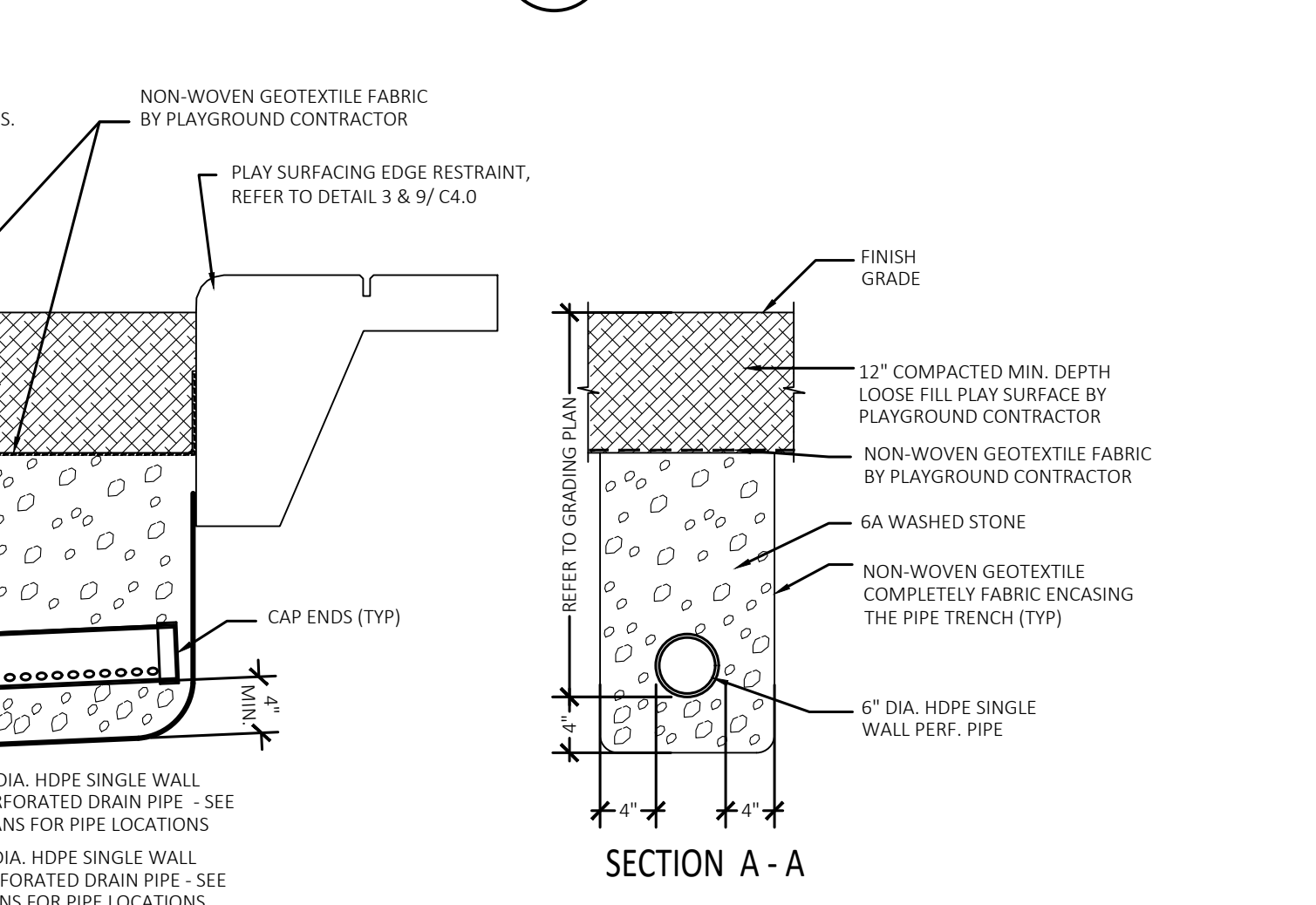
14 Playground Drainage Detail
NOT TO SCALE



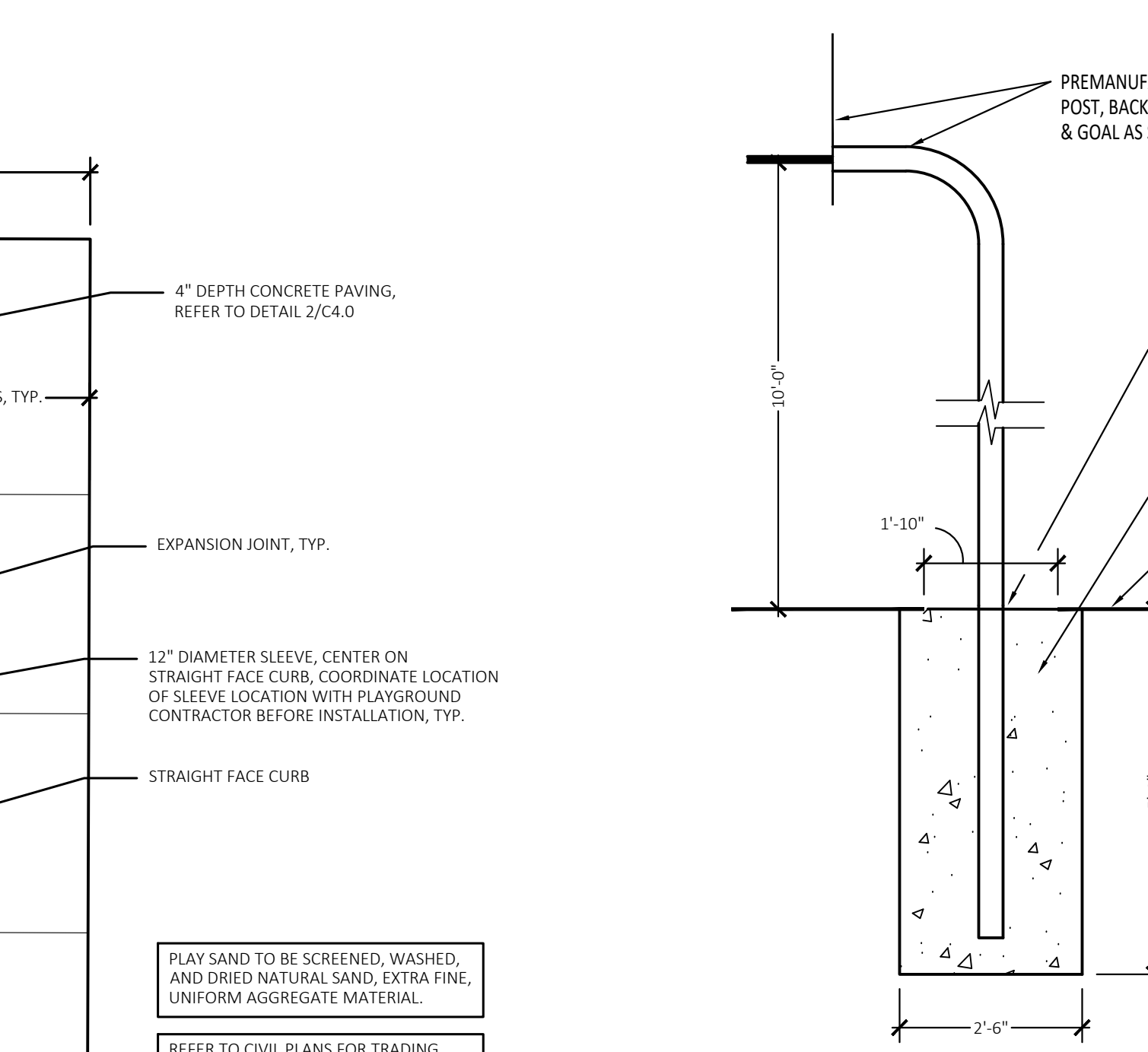
15 Concrete Sand Box Detail
Not to Scale



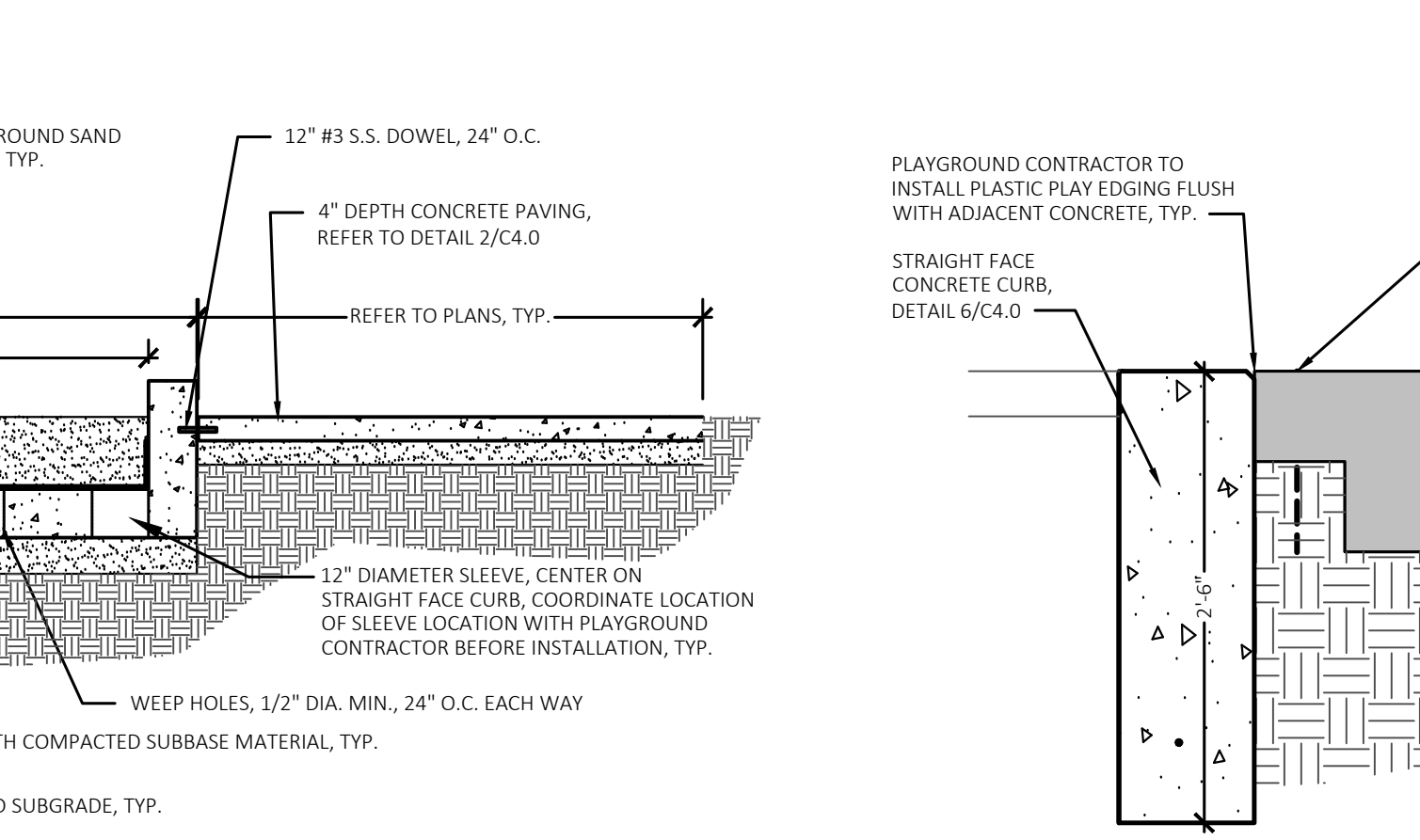
16 Access Ramp to Play Areas Detail
NOT TO SCALE



SECTION A-A



17 Basketball Post Footing Detail
Not to Scale



18 Concrete Curb to Plastic Edging Transition Detail
Not to Scale



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PROJECT TITLE
**Wattles Elementary School
Playground Remodel
Bld Package No.01B**

Troy School District
Troy, Michigan

DRAWING TITLE
Details

ISSUE DATES

DATE:	ISSUED FOR:
10-03-2024	CONSTRUCTION DOCUMENTS
09-10-2024	OWNER REVIEW
07-24-2024	100% DESIGN DOCUMENTS
DRAWN	DID
CHECKED	DID
APPROVED	DID

PROJECT NO.
22097B
DRAWING NO.
C4.0



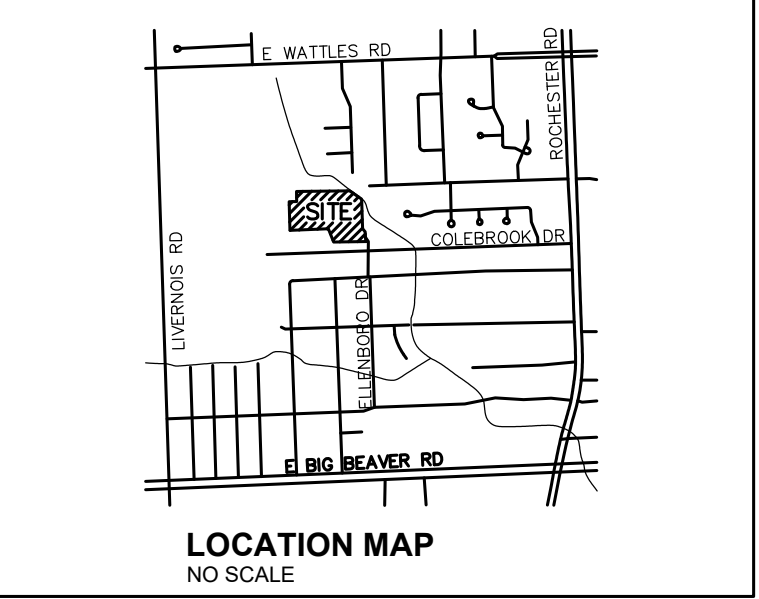
BENCHMARKS:
(GPS DERIVED - NAVD88)

BM 302 - BENCH TIE AND TAG IN THE SOUTH FACE OF A POWER POLE LOCATED 100' EAST OF THE EAST BUILDING CORNER OF THE MAINTENANCE SHED AND 230' NORTH OF THE NORTHEAST CORNER OF THE PARKING LOT.
ELEVATION: 669.06

BM 303 - ARROW ON FIRE HYDRANT, WEST OF BUILDING AND NORTH OF BASKETBALL COURT.
ELEVATION: 674.64

BM 304 - ARROW ON FIRE HYDRANT, EAST OF BUILDING AND NORTHWEST OF EASTERLY PARKING LOT.
ELEVATION: 675.34

FLOODPLAIN NOTE:
BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE "X", AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN, PER FLOOD INSURANCE RATE MAP NUMBER 26125C0534F, DATED 9/29/2006.



LEGEND:

- OH-ELEC-14-O-C- EX. OH. ELEC. POLE & GUY WIRE
- UG-CATV- EX. U.G. CABLE TV & PEDESTAL
- UG-COMM- EX. U.G. COMMUNICATION LINE, PEDESTAL & MANHOLE
- UG-ELEC- EX. U.G. ELEC. MANHOLE, METER & HANDHOLE
- - - EX. GAS LINE
- EX. GAS VALVE & GAS LINE MARKER
- EX. TRANSFORMER & IRRIGATION VALVE
- EX. WATER MAIN
- EX. HYDRANT, GATE VALVE & POST INDICATOR VALVE
- EX. WATER VALVE BOX & SHUTOFF
- EX. SANITARY SEWER
- EX. SANITARY CLEANOUT & MANHOLE
- EX. COMBINED SEWER MANHOLE
- EX. STORM SEWER
- EX. CLEANOUT & MANHOLE
- EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN
- EX. YARD DRAIN & ROOF DRAIN
- EX. UNIDENTIFIED STRUCTURE
- EX. MAILBOX, SIGN & LIGHTPOLE
- EX. FENCE
- EX. GUARD RAIL
- EX. SPOT ELEVATION
- EX. CONTOUR
- EX. WETLAND
- IRON FOUND / SET
- NAIL FOUND / NAIL & CAP SET
- BRASS PLUG SET
- MONUMENT FOUND / SET
- SECTION CORNER FOUND
- RECORDED / MEASURED / CALCULATED

UTILITY INFORMATION
ELECTRIC - DTE ENERGY
GAS - CONSUMERS
TELEPHONE - AT&T
SANITARY SEWER - CITY OF TROY
STORM - CITY OF TROY
WATER - CITY OF TROY

REFERENCE DRAWINGS:

SANITARY	CITY OF TROY GIS ONLINE, DATED 4-11-23
STORM	CITY OF TROY GIS ONLINE, DATED 4-11-23
TELEPHONE	AT&T, DATED 4-14-23
WATER	CITY OF TROY GIS ONLINE, DATED 4-11-23



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EM - INFO@TMP-ARCHITECTURE.COM

REGISTRATION SEAL

CONSULTANT



PROJECT TITLE
Wattles Elementary School
3555 ELLENBORO AVENUE

**Playground Remodel
Bid Package No.01B**

**Troy School District
Troy, Michigan**

DRAWING TITLE
Topographic Survey

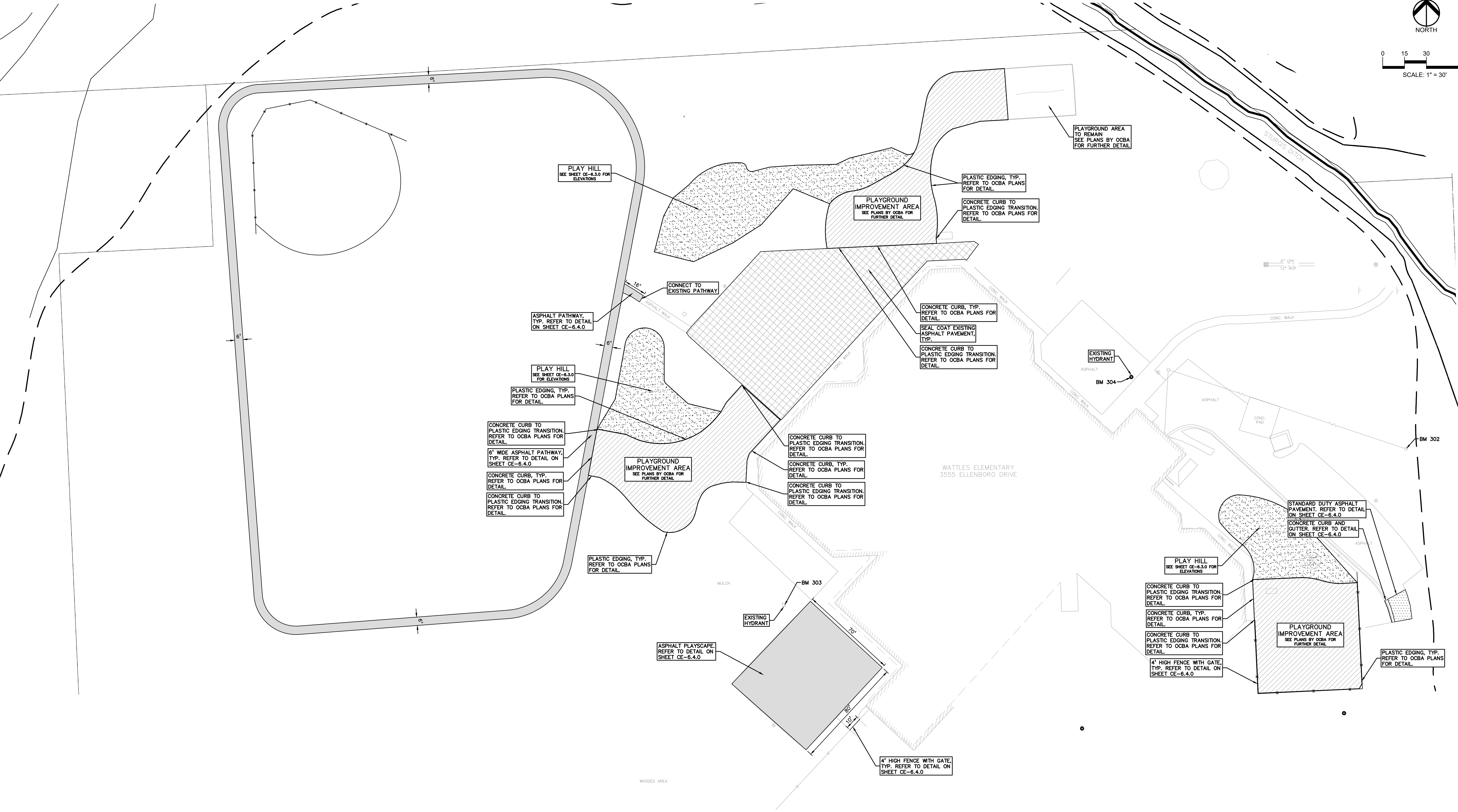
ISSUE DATES

10-03-2024	CONSTRUCTION DOCUMENTS
09-10-2024	OWNER REVIEW
08-21-2024	INTERNAL COORDINATION
07-24-2024	DESIGN DEVELOPMENT

DATE:	ISSUED FOR:
DRAWN	JG
CHECKED	JW
APPROVED	TD

PROJECT NO.
22097B

DRAWING NO.
CE-6.1.0



LEGEND:

- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- WETLAND
- CONCRETE CURB AND GUTTER
- REVERSE GUTTER PAN
- SETBACK LINE
- SIGN
- LIGHTPOLE
- FENCE
- GUARD RAIL

- NOTES:**
- CONTRACTOR TO VERIFY ALL QUANTITIES SHOWN ON THE PLANS. ANY DEVIATIONS TO THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF THE SCHOOL DISTRICT AND PEAGROUP, IN WRITING PER THE BID PACKAGE, FOR VERIFICATION PRIOR TO BIDDING.
 - ALL DIMENSIONS SHOWN ARE TO BACK OF CURB, FACE OF SIDEWALK, CENTER OF MANHOLE/CATCH BASIN UNLESS OTHERWISE NOTED.
 - DOWEL INTO EXISTING CURB AND GUTTER 9" WITH EPOXY COATED #4 BAR CONTINUOUS BETWEEN EXISTING AND PROPOSED CURBING.
 - REFER TO NOTES AND DETAILS SHEET FOR PAVING DETAILS.
 - CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER LINES, ETC.
 - CONTRACTOR TO REMOVE AND REPLACE SIGNS AND POSTS PER DETAILS ON SHEET C-4.0. ALL SIGNS AND ANY POSTS IN GOOD CONDITION SHALL BE RETURNED TO THE OWNER. ALL POSTS DAMAGED OR OTHERWISE NOT IN USABLE CONDITION, SHALL BE DISPOSED OF AT NO ADDITIONAL COST TO THE OWNER.
 - FOR THE TWO (2) CATCH BASINS, LOCATED IN THE WORK AREA, BIDDERS ARE TO INCLUDE RECONSTRUCTION OF THESE STRUCTURES (GREATER THAN 12-INCHES IN DEPTH FROM THE RM ELEVATION OF REPAIR WORK) IN THE BASE BID. THE SUCCESSFUL BIDDER WILL BE PAID FOR REPAIRING EACH STRUCTURE BASED ON THE ACTUAL DEPTH OF REPAIR WITH EITHER STRUCTURAL ADJUSTMENT (WITHIN TOP 12-INCHES OF RM ELEVATION) OR STRUCTURAL RECONSTRUCTION (GREATER THAN 12-INCHES IN DEPTH) PER THE UNIT PRICES PROVIDED IN THE BID PACKAGE. AND THE SCOPE OF WORK DETERMINED AND APPROVED PRIOR TO THE WORK COMMENCING. REPLASTERING OF THE ENTIRE STRUCTURE SHALL BE INCLUDED IN THE UNIT PRICE FOR BOTH STRUCTURAL ADJUSTMENT AND STRUCTURAL RECONSTRUCTION.

- SUBGRADE UNDERCUTTING NOTES:**
- TO MINIMIZE SUBGRADE INSTABILITY AND UNDERCUTS, THE SUBGRADE SHALL NOT BE LEFT EXPOSED TO PRECIPITATION AND CONSTRUCTION OPERATIONS AND SHOULD BE PERFORMED DURING THE SUMMER MONTHS TO ENSURE DRY, WARM, WEATHER. ADDITIONALLY, THE SUBGRADE MAY BECOME UNSTABLE UNDER REPEATED LOADING OF CONSTRUCTION TRAFFIC; THEREFORE, CONSTRUCTION EQUIPMENT SHOULD BE LIMITED ON THE EXPOSED SUBGRADE.
 - SUBGRADE UNDERCUT SHALL BE EVALUATED BY A QUALIFIED ENGINEERING TECHNICIAN TO DETERMINE IF SUBGRADE STABILIZATION IS NECESSARY. UNDERCUT EXCAVATIONS SHALL BE BACKFILLED WITH M20.21A DENSE GRADED AGGREGATE PLACED IN AN ENGINEERED MANNER. LIFT THICKNESS SHALL NOT EXCEED 9 INCHES. THE USE OF TRI-AXIAL GEOTEXTILE MAY BE USED TO REDUCE UNDERCUT DEPTHS, AS APPROVED BY THE DISTRICT AND PER THE UNIT PRICE PROVIDED WITH THE CONTRACTORS BID.
 - THE QUANTITY FOR SUBGRADE UNDERCUT FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID. THIS ITEM IS CONSIDERED AN ALLOWANCE AND FINAL PAYMENT WILL BE BASED ON THE ACTUAL VOLUME OF COMPACTED IN PLACE STONE PER THE UNIT PRICE PROVIDED IN THE BID PACKAGE.
 - ALL ENGINEERED FILL SHALL BE COMPACTED TO A DENSITY OF AT LEAST 95 PERCENT OF THE MAXIMUM DENSITY DETERMINED BY THE MODIFIED PROCTOR (ASTM D1557) METHOD OF TESTING. ALL ENGINEERED FILL MATERIAL SHALL BE PLACED AND COMPACTED AT APPROXIMATELY THE OPTIMUM MOISTURE CONTENT. FROZEN MATERIAL SHALL NOT BE USED AS FILL, NOR SHOULD FILL BE PLACED ON A FROZEN SUBGRADE.
 - SUBGRADE UNDERCUT DRAIN TILE SHALL BE EVALUATED BY A QUALIFIED ENGINEERING TECHNICIAN TO DETERMINE IF SUBGRADE STABILIZATION IS NECESSARY. DRAIN TILE SHALL BE PLACED WITHIN ANY UNDERCUT AREA AND CONNECTED TO THE CLOSEST CATCH BASIN TO PREVENT GROUNDWATER FROM POOLING WITHIN THE GRANULAR SOILS IN UNDERCUTS AND CREATING "BATHTUBS" IN THE COHESIVE SOILS.
 - THE QUANTITY FOR SUBGRADE UNDERCUT DRAIN TILE (4") FOR EACH SITE SHALL BE INCLUDED IN THE BASE BID. THIS ITEM IS CONSIDERED AN ALLOWANCE AND FINAL PAYMENT WILL BE BASED ON THE ACTUAL FOOTAGE OF COMPACTED IN PLACE STONE PER THE UNIT PRICE PROVIDED IN THE BID PACKAGE.

TMP ARCHITECTURE

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REGISTRATION SEAL

CONSULTANT

PEA GROUP

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PROJECT TITLE
Wattles Elementary School
3555 ELLENBORO AVENUE

Playground Remodel
Bid Package No.01B

Troy School District
Troy, Michigan

DRAWING TITLE
Dimension & Paving Plan

ISSUE DATES

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22097B

DRAWING NO.

CE-6.2.0

SOIL EROSION MAINTENANCE SCHEDULE AND NOTES:

1. THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY:
ROB CARSON
TROY SCHOOL DISTRICT
1140 RAMON
TROY, OAKLAND COUNTY, MICHIGAN
248-923-4097
2. IF ANY DAMAGE HAS OCCURRED AS A RESULT OF STORM WATER DISCHARGE FROM THE SITE, THE FOLLOWING STEPS SHALL BE IMPLEMENTED:
ANY DEBRIS OR DIRT ON ANY PAVED AREA RESULTING FROM CONSTRUCTION TRAFFIC SHALL BE CLEANED IN A PROMPT MANNER BY THE CONTRACTOR. THE CONSTRUCTION DRIVE SHALL BE CLEANED AT THE END OF EACH DAY.
4. ALL DIRT AND MUD TRACKED ONTO PAVED AREAS SHALL BE REMOVED BY THE CONTRACTOR DAILY BY SCRAPING. STREET SWEEPING IS REQUIRED WEEKLY.
5. SILT FENCE MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY BUILT UP SEDIMENT WHEN THE SEDIMENT HEIGHT ACCUMULATES TO 1/3 TO 1/2 OF THE HEIGHT OF THE FENCE. THE CONTRACTOR IS RESPONSIBLE TO REMOVE, REPLACE, RETRENCH OR REBACKFILL THE SILTATION FENCE SHOULD IT FALL OR BE DAMAGED DURING CONSTRUCTION.
6. INLET FILTER MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY ACCUMULATED SILT OR OTHER DEBRIS. THE REMOVAL OF SILT SHOULD BE WITH THE USE OF A STIFF BRISTLE BROOM OR SQUARE POINT SHOVEL. IF INLET FILTERS CAN NOT BE CLEANED OR ARE DAMAGED, THEN THE FABRIC MUST BE REPLACED.
7. CONTRACTOR TO PROVIDE WATER TRUCK TO WATER DOWN THE SITE ON A DAILY BASIS AS REQUIRED TO MAINTAIN DUST CONTROL.
8. IF HIGH GROUNDWATER IS ANTICIPATED OR ENCOUNTERED DURING CONSTRUCTION A DEWATERING PLAN MUST BE SUBMITTED TO THE CITY ENGINEERING DIVISION FOR REVIEW.

GENERAL SITE CONDITIONS:

1. ACCORDING TO THE USDA NRCS WEB SOIL SURVEY, THE SITE CONSISTS OF THE FOLLOWING SOIL TYPES:
33 LENAWEE SILTY CLAY LOAM, 0 TO 1 PERCENT SLOPES
41B AGGENTS, SANDY, LOAMY, UNUNDULATING
63A URBAN LAND-THEFORD COMPLEX, 0 TO 3 PERCENT SLOPES
2. TOTAL DISTURBED AREA = ±2.50 ACRES

SOIL EROSION AND SEDIMENTATION CONTROL SEQUENCE OF CONSTRUCTION

1. SEE OAKLAND COUNTY W.R.C. SOIL EROSION AND SEDIMENTATION CONTROL DETAILS SHEET FOR ALL SOIL EROSION CONTROL RELATED DETAILS.
2. PLACE SILT FENCE & INSTALL INLET FILTERS ON EXISTING STORM SEWER STRUCTURES, ACCORDING TO PLANS.
3. INSTALL TEMPORARY CRUSHED CONCRETE ACCESS DRIVE AT ALL CONSTRUCTION ENTRANCES. (60"x24"x8" W/MINIMUM OF 1"-3" CRUSHED CONCRETE - NO FINES).
4. REMOVE CURB, PAVEMENT, TREES, ETC. AS DIRECTED ON THE DEMOLITION PLAN.
5. STRIP AND STOCKPILE TOPSOIL FOR RESTORATION REQUIREMENTS.
6. DISPOSE OF ALL EXCESS UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO BURN OR BURY PITS ALLOWED.
7. UNSUITABLE MATERIALS CONSIST OF, BUT ARE NOT NECESSARILY LIMITED TO THE FOLLOWING: CONCRETE, ASPHALT, TREES, BRUSH, STUMPS, ROOTS, OR OTHER MISCELLANEOUS DEBRIS OR TRASH.
8. MASS GRADE THE SITE IN ACCORDANCE WITH THE PLANS.
9. INSTALL HYDROSEED AS SHOWN ON THE PLAN WITHIN 5 DAYS OF COMPLETION OF MASS GRADING OR WHENEVER DISTURBED AREAS WILL REMAIN UNCHANGED FOR 30 DAYS OR GREATER. MINIMUM 3"-4" TOPSOIL WILL BE USED WHERE VEGETATION IS REQUIRED.
10. COMPLETE ROUGH GRADING OF SITE. PLACE INLET FILTERS AT ALL INLETS AND CATCH BASINS, AS SHOWN.
11. FINISH GRADE AND PAVE SITE AS PROPOSED TO DRAIN TO STORM SEWER SYSTEM. REPAIR INLET FILTERS AS REQUIRED.
12. APPLY TOPSOIL, HYDROSEED TO ALL DISTURBED AREAS UPON COMPLETION OF GRADING. THE CONTRACTOR SHALL STAGE CONSTRUCTION ACTIVITIES IN ORDER TO MINIMIZE THE EXPOSURE OF UNSTABILIZED AREAS.
13. CLEAN PAVEMENT AND STORM SEWERS. REMOVE SILT FENCE AND TREE PROTECTION FENCE, AND INLET FILTERS ONCE VEGETATION HAS BEEN ESTABLISHED.
14. ALL DIRT AND MUD TRACKED ONTO PUBLIC ROADS SHALL BE REMOVED DAILY.
15. STREET CATCH BASINS TO BE PERIODICALLY CLEANED AND FILTER CLOTH CHANGED AND MAINTAINED.

SEQUENCE OF CONSTRUCTION:

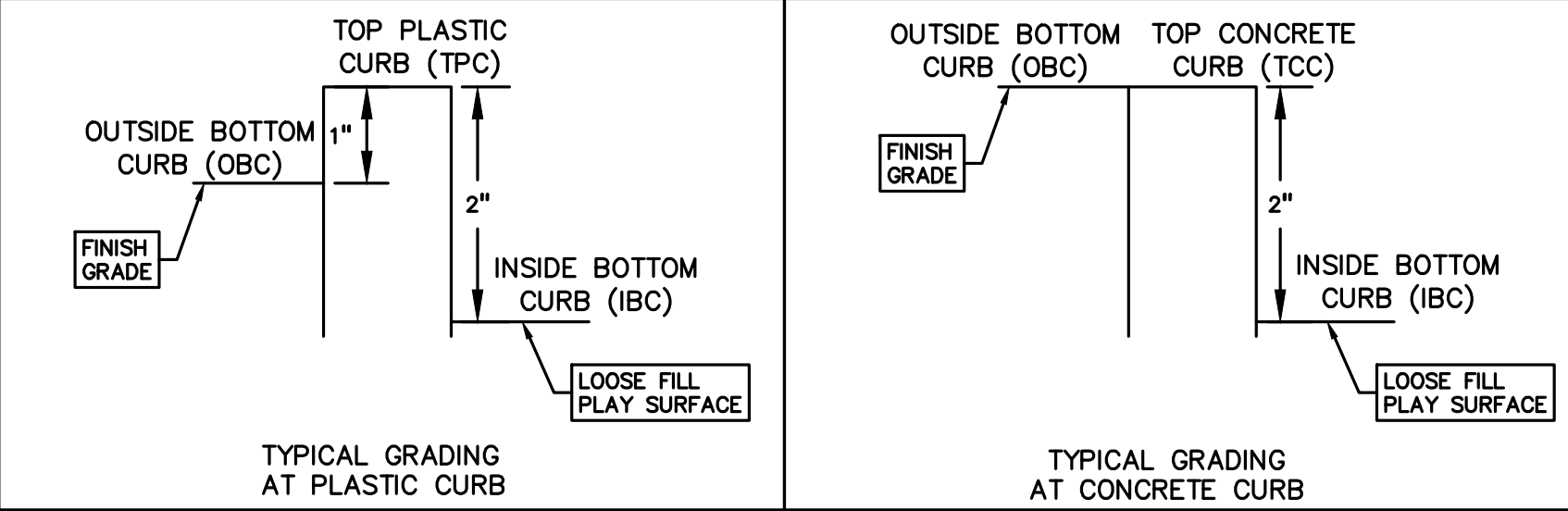
START DAY	END DAY	DESCRIPTION
1	2	INSTALL TEMPORARY SOIL EROSION CONTROL MEASURES, SILT FENCES, INLET PROTECTION, ETC. AS NECESSARY.
1	90	MAINTAIN A 25' BUFFER OF VEGETATION AROUND PERIMETER OF SITE WHERE POSSIBLE.
1	5	STRIP AND STOCKPILE TOPSOIL AS REQUIRED RESTORATION. ALL STOCKPILES MUST BE GRADED AND SEEDED.
5	15	REMOVE ALL PAVEMENT, CURB, UTILITIES, ETC. AS REQUIRED TO INSTALL THE PROPOSED WORK AS SHOWN ON THE TOPOGRAPHIC SURVEY AND DEMOLITION PLAN.
10	15	DISPOSE OF ALL EXCESS/UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO ON-SITE BURN OR BURY PITS ALLOWED.
30	40	ROUGH GRADE SITE. SEED AND MULCH BLANKETS MUST BE INSTALLED AS SHOWN WITHIN 5 DAYS OF FINAL GRADE. REPAIR AND/OR RE-INSTALL ANY TEMPORARY SOIL EROSION CONTROL MEASURES THAT WERE DAMAGED DURING GRADING OPERATIONS.
15	90	TEMPORARY SEEDING MUST BE PROVIDED IN AREAS NOT TO BE WORKED ON FOR 15 DAYS OR LONGER.
40	50	FINE GRADE SITE AND PREPARE FOR SITE PAVING OPERATIONS.
50	80	INSTALL ALL PAVEMENT, SIDEWALKS, CURBING AS PROPOSED. IF PERMANENT LANDSCAPING IS NOT TO BE INSTALLED SOON AFTER PAVING IS COMPLETE, ALL AREAS WITHIN 20 FEET OF BACK OF CURB MUST BE TEMPORARILY SEEDED. REPAIR INLET PROTECTION, SILT FENCE AND ANY OTHER DAMAGED SOIL EROSION CONTROL MEASURES AS NECESSARY.
80	89	FINAL GRADE, REDISTRIBUTE STOCKPILED TOPSOIL, ESTABLISH VEGETATION AND INSTALL ALL PERMANENT LANDSCAPING IN ALL DISTURBED AREAS NOT BUILT.
88	90	CLEAN PAVEMENT AND REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES. RE-ESTABLISH VEGETATION AS REQUIRED.
90	90	REMOVE SEDIMENTATION CONTROLS ONCE ENTIRE SITE HAS BEEN PERMANENTLY STABILIZED.

EARTHWORK BALANCING NOTE:

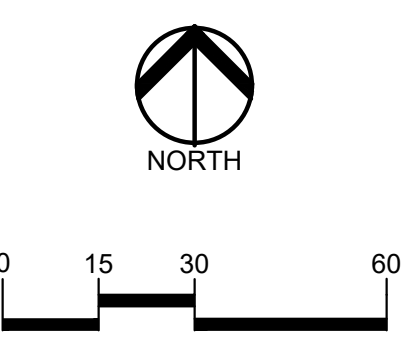
THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPORTING OR EXPORTING ALL MATERIALS AS REQUIRED TO PROPERLY GRADE THIS PROJECT TO THE FINISHED ELEVATIONS SHOWN ON THE APPROVED PLANS. THE CONTRACTOR SHALL MAKE THEIR OWN DETERMINATION OF CUT AND FILL QUANTITIES AND ALLOW FOR REMOVAL OF EXCESS OR IMPORTATION OF ADDITIONAL MATERIAL AT NO ADDITIONAL COST TO THE OWNER.

NOTE:

1. PER THE 'SOIL EROSION AND SEDIMENTATION CONTROL SEQUENCE OF CONSTRUCTION' NOTES THE SUCCESSFUL BIDDER TO THE CLEAN THE STORM SEWER. THIS CLEANING SHALL INCLUDE CLEANING OUT THE STRUCTURES AND EXISTING SEWER RUNS BETWEEN STRUCTURES USING HYDRAULICALLY PROPELLED, HIGH-VELOCITY JET, OR MECHANICALLY POWERED EQUIPMENT. SELECTION OF THE EQUIPMENT USED SHALL BE BASED ON THE CONDITIONS OF LINES AT THE TIME THE WORK COMMENCES. THE EQUIPMENT AND METHODS SELECTED SHALL BE SATISFACTORY TO THE SCHOOL DISTRICT'S REPRESENTATIVE. THE EQUIPMENT SHALL BE CAPABLE OF REMOVING DIRT, GREASE, ROCKS, SAND, AND OTHER MATERIALS AND OBSTRUCTIONS FROM THE SEWER LINES AND MANHOLES. IF CLEANING OF AN ENTIRE SECTION CANNOT BE SUCCESSFULLY PERFORMED FROM ONE MANHOLE, THE EQUIPMENT SHALL BE SET UP ON THE OTHER MANHOLE AND CLEANING AGAIN ATTEMPTED. IF, AGAIN, SUCCESSFUL CLEANING CANNOT BE PERFORMED OR THE EQUIPMENT FAILS TO TRANSVERSE THE ENTIRE MANHOLE SECTION, IT WILL BE ASSUMED THAT A MAJOR BLOCKAGE EXISTS AND THE CLEANING EFFORT SHALL BE ABANDONED.
2. PER THE PROJECT SPECIFICATIONS, PRIOR TO THE PLACEMENT OF TOPSOIL, THE SUCCESSFUL BIDDER TO SCHEDULE AN INSPECTION BY THE SCHOOL DISTRICT OR PEA GROUP TO CONFIRM THAT THE GRADE IS AT THE PROPER ELEVATION WHERE THE MINIMUM DEPTH OF TOPSOIL CAN BE PLACED THROUGHOUT THE AREA.
3. CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER LINES, ETC.



REFER TO OCBA SHEET C4.0 FOR DETAILS OF CURB SECTIONS



SYMBOLS: EROSION CONTROL:

- (SP-2) SILT FENCE
- (SI-2A) LOW POINT INLET FILTER
- (SI-3) RYOB INLET FILTER
- (E-9) EROSION CONTROL BLANKET
- LAWN RESTORATION
- LIMITS OF DISRUPTION

REFER TO CITY OF TROY SOIL EROSION AND SEDIMENTATION CONTROL DETAILS SHEET FOR ALL DEVICE DETAILS.

GRADING LEGEND:

- EXISTING SPOT ELEVATION
- PROPOSED SPOT ELEVATION
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED REVERSE GUTTER PAN
- PROPOSED RIDGE LINE
- PROPOSED SWALE/DITCH

ABBREVIATIONS:

- TIC = TOP OF CURB
- TOP = TOP OF PAVEMENT
- T/S = TOP OF SIDEWALK
- T/W = TOP OF WALL
- TCC = TOP OF CONCRETE CURB
- TPC = TOP OF PLASTIC CURB
- IBC = INSIDE OF BOTTOM OF CURB
- OBC = OUTSIDE BOTTOM OF CURB
- G = GUTTER GRADE
- F.G. = FINISH GRADE
- RM = RIM ELEVATION
- BM = BOTTOM OF WALL

REFER TO GRADING NOTES ON SHEET CE-6.4.0

UTILITY LEGEND:

- EX. OH. ELEC. POLE & GUY WIRE
- EX. U.G. CABLE TV & PEDESTAL
- EX. U.G. COMMUNICATION LINE, PEDESTAL & MANHOLE
- EX. U.G. ELEC. MANHOLE, METER & HANDHOLE
- EX. GAS LINE
- EX. GAS VALVE & GAS LINE MARKER
- EX. TRANSFORMER & IRRIGATION VALVE
- EX. WATER MAIN
- EX. HYDRANT, GATE VALVE & POST INDICATOR VALVE
- EX. WATER VALVE BOX & SHUTOFF
- EX. SANITARY SEWER
- EX. SANITARY CLEAUNOUT & MANHOLE
- EX. COMBINED SEWER MANHOLE
- EX. STORM SEWER
- EX. CLEAUNOUT & MANHOLE
- EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN
- EX. YARD DRAIN & ROOF DRAIN
- EX. UNIDENTIFIED STRUCTURE
- PROPOSED WATER MAIN
- PROPOSED HYDRANT AND GATE VALVE
- PROPOSED TAPPING SLEEVE, VALVE & WELL
- PROPOSED POST INDICATOR VALVE
- PROPOSED SANITARY SEWER
- PROPOSED SANITARY CLEAUNOUT & MANHOLE
- PROPOSED STORM SEWER
- PROPOSED STORM SEWER CLEAUNOUT & MANHOLE
- PROPOSED CATCH BASIN, INLET & YARD DRAIN

BENCHMARKS:

- (GPS DERIVED - NAVD83)
- BM 302 - BENCH TIE AND TAG IN THE SOUTH FACE OF A POWER POLE LOCATED 100' EAST OF THE EAST BUILDING CORNER OF THE MAINTENANCE SHED AND 238' NORTH OF THE NORTHEAST CORNER OF THE PARKING LOT. ELEVATION: 669.69
- BM 303 - ARROW ON FIRE HYDRANT, WEST OF BUILDING AND NORTH OF BASKETBALL COURT. ELEVATION: 674.64
- BM 304 - ARROW ON FIRE HYDRANT, EAST OF BUILDING AND NORTHWEST OF EASTERLY PARKING LOT. ELEVATION: 675.34

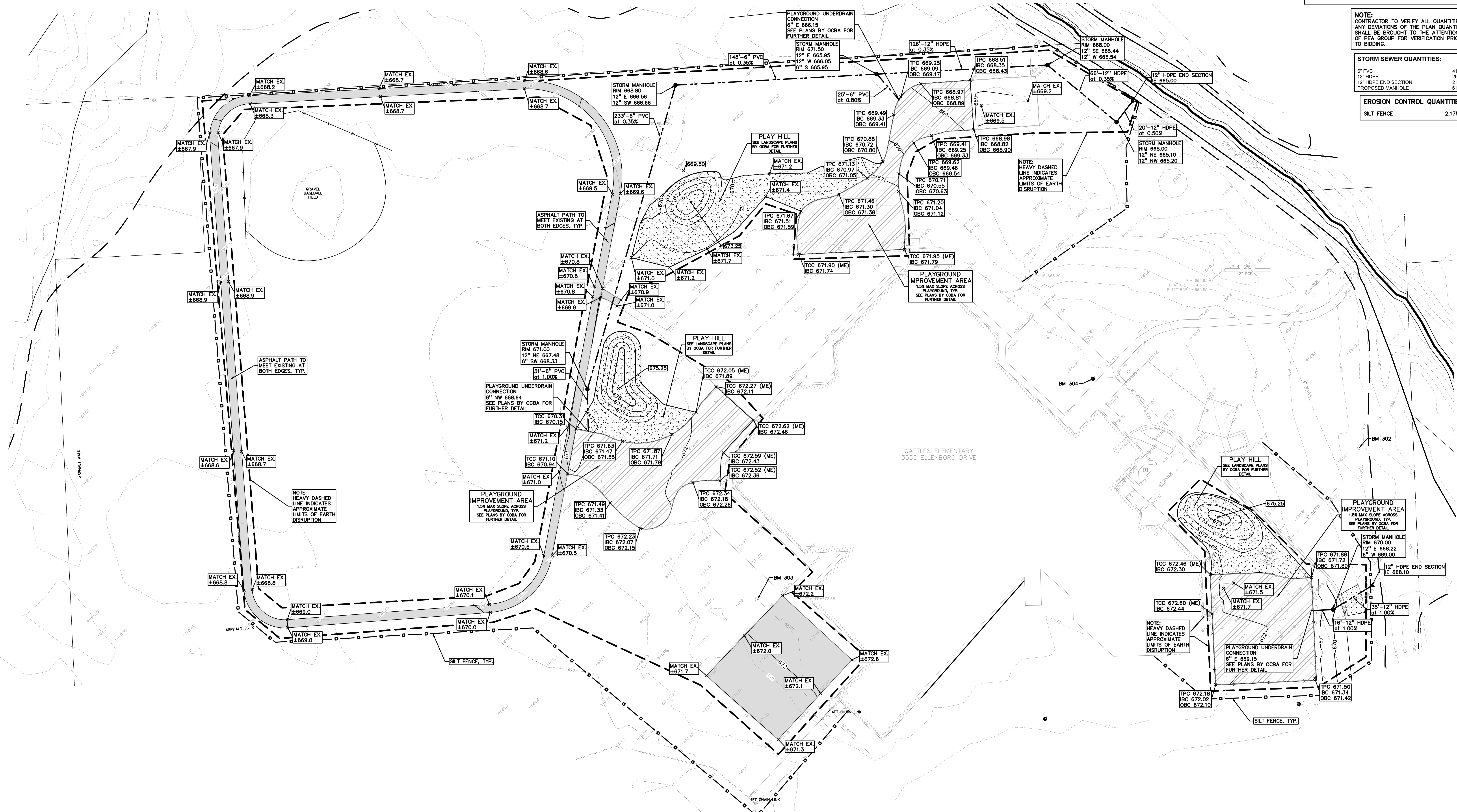
NOTE: CONTRACTOR TO VERIFY ALL QUANTITIES. ANY DEVIATIONS OF THE PLAN QUANTITIES SHALL BE BROUGHT TO THE ATTENTION OF PEA GROUP FOR VERIFICATION PRIOR TO BIDDING.

STORM SEWER QUANTITIES:

- 6" PVC 416 LF
- 12" HDPE 203 LF
- 12" HDPE END SECTION 2 EA
- PROPOSED MANHOLE 6 EA

EROSION CONTROL QUANTITIES:

- SILT FENCE 2,175 LF



TMAP ARCHITECTURE INC

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REGISTRATION SEAL

CONSULTANT



t: 844.813.2949
www.peagroup.com

PROJECT TITLE
Wattles
Elementary School
3555 ELLENBORO AVENUE

Playground Remodel
Bid Package No.01B

Troy School District
Troy, Michigan

DRAWING TITLE
Grading, Utility & Soil
Erosion Control Plan

ISSUE DATAS

10-03-2024	CONSTRUCTION DOCUMENTS
09-10-2024	OWNER REVIEW
08-21-2024	INTERNAL COORDINATION
07-24-2024	DESIGN DEVELOPMENT

DATE ISSUED FOR:

DRAWN JG

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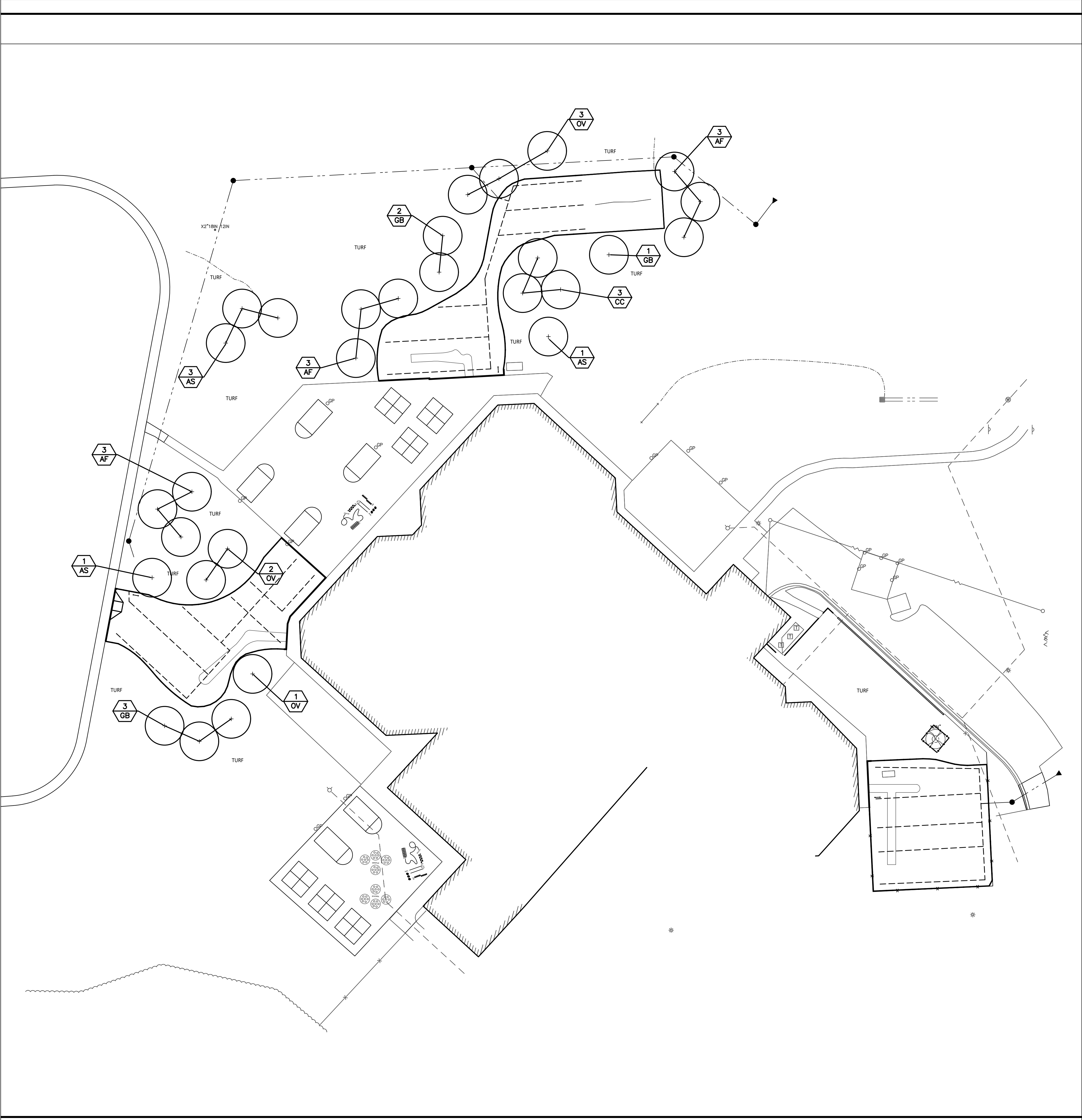
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PROJECT NO.

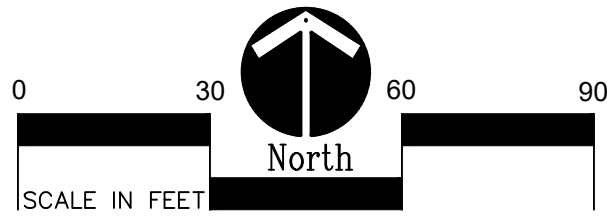
22097B

DRAWING NO.

CE-6.3.0



1 Site Landscape Plan
1" = 30'-0"



PROPOSED FEATURES LEGEND:

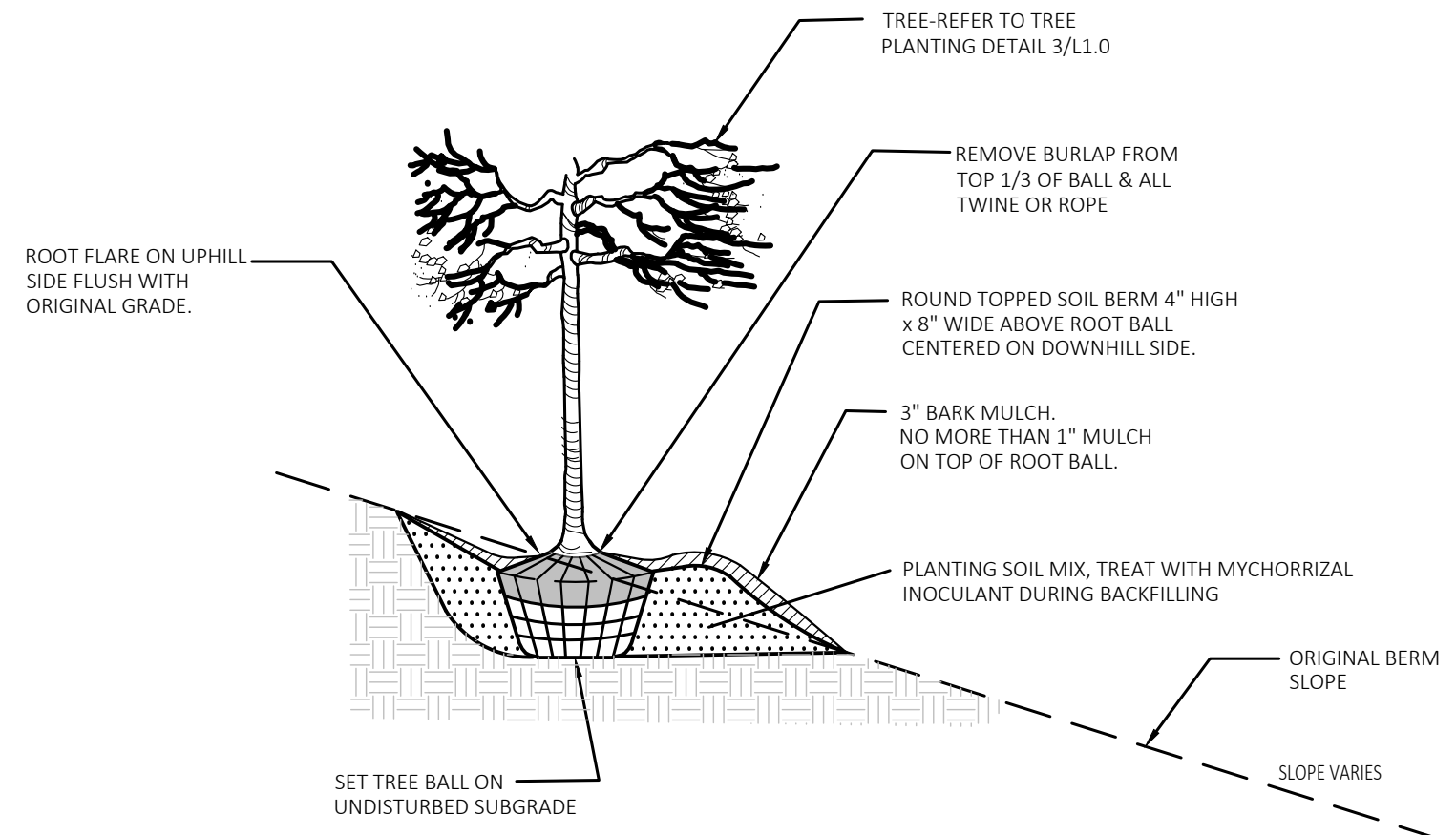
SYMBOL	DESCRIPTION	DETAIL
	DECIDUOUS TREE	2 & 3/L1.0
	PLANT TAG- REFERS TO TYPE AND NUMBER OF PLANTINGS TO BE PROVIDED AND MAINTAINED BY CONTRACTOR.	

LANDSCAPE NOTES:

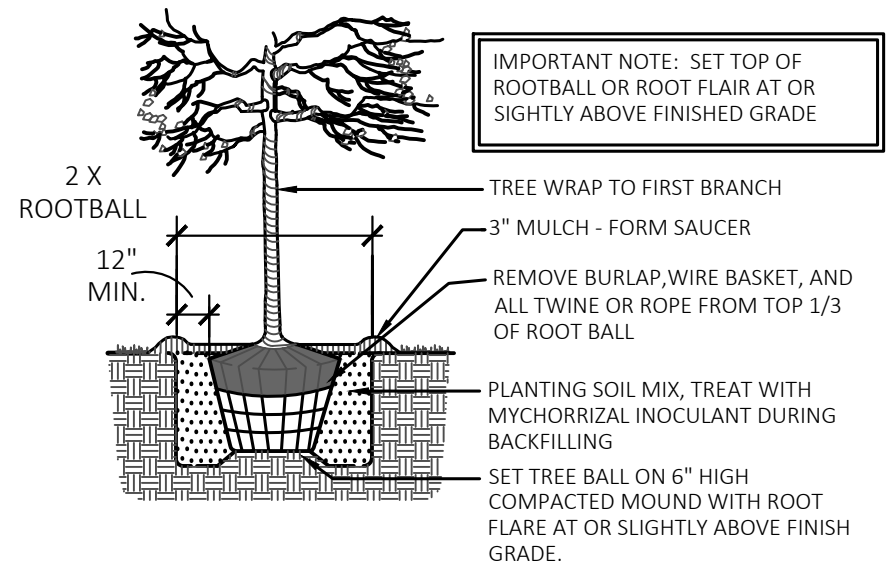
1. SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN, 48326, (248)689-9090.
2. CALL "MISS DIG" AND VERIFY ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171. ANY UTILITIES DISTURBED BY CONSTRUCTION SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
3. ANY DISCREPANCIES BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS SHOULD BE REPORTED TO THE CONSTRUCTION MANAGER IMMEDIATELY FOR RESOLUTION.
4. IN AREAS OF NEW TURF PLACE 4" MINIMUM TOPSOIL, FINE GRADE & ESTABLISH TURF WITHIN SEED LIMIT LINES.
5. PLACE SHREDED HARDWOOD MULCH TO A 3" DEPTH IN ALL TREE & SHRUB BEDS & TO A 2" DEPTH IN ALL GROUND COVER BEDS.
6. UNLESS OTHERWISE NOTED, TOPSOIL, FINE GRADE AND SEED ALL DISTURBED AREAS WITHIN THE SEEDING LIMIT SHOWN AND AREAS DISTURBED BY CONSTRUCTION.
7. REPAIR AND RESTORE ANY DAMAGE OUTSIDE OF LIMIT OF WORK LINE TO ORIGINAL CONDITION.
8. PROTECT ALL TREES AND EXISTING FEATURES TO REMAIN AS SPECIFIED.
9. ALL TOPSOIL AND EXCESS FILL MATERIAL SHALL BE STOCKPILED ON SITE SEPARATELY FOR LATER RE-USE. LOCATE STOCKPILES IN AREAS AS DIRECTED BY CONSTRUCTION MANAGER AND PROTECT FROM EFFECTS OF EROSION.
10. ALL NURSERY STOCK SHALL BE TRUE TO TYPE AND NAME. ALL STOCK SHALL BE FIRST CLASS QUALITY WITH WELL DEVELOPED BRANCH SYSTEMS AND VIGOROUS HEALTHY ROOT SYSTEMS. ALL STOCK SHALL BE WELL FORMED AND THE TRUNKS OF TREES SHALL BE UNIFORM AND STRAIGHT.
11. CONTRACTOR RESPONSIBLE TO LOCATE SITE LIGHTING SERVICES. CONTRACTOR RESPONSIBLE TO NOTIFY CONSTRUCTION MANAGER IF DAMAGE TO LIGHTING ELECTRICAL DISTRIBUTION OCCURS.
12. ALL AREAS OF TREE CLEARING SHALL BE STAKED FOR ARCHITECTS APPROVAL PRIOR TO CLEARING.
13. UNLESS OTHERWISE SPECIFIED, ALL PERENNIALS, GRASSES AND GROUNDCOVERS SHALL BE GROWN IN THEIR CONTAINER FOR ONE YEAR PRIOR TO INSTALLATION.

PLANT LIST:

	SYM.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING	STATUS
TREES	AF	Acer x freemantii 'Mansu'	Mansu Freeman Maple	2" CAL	B&B	PER PLANS	NATIVE
	AS	Acer saccharum 'Commemoration'	Commemoration Sugar Maple	2" CAL	B&B	PER PLANS	NATIVE
	CC	Carpinus caroliniana	Hornbeam	2" CAL	B&B	PER PLANS	NATIVE
	GB	Ginkgo biloba 'Autumn Gold'	Autumn Gold Ginkgo Tree (no female)	2" CAL	B&B	PER PLANS	NON-NATIVE
	OV	Cotuya virginiana	Hophornbeam	2" CAL	B&B	PER PLANS	NATIVE



2 Tree On Berm Detail 1/4 Slope or Greater
NOT TO SCALE



3 Tree Planting Detail
NOT TO SCALE



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REGISTRATION SEAL

CONSULTANT



141 E. Michigan Avenue, Suite 500
Kalamazoo Michigan 49007
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Landscape Architecture
Urban Planning
Parks & Recreation
Campus & Institutional Planning
Camp Planning & Design

PROJECT TITLE

**Wattles
Elementary School
Playground Remodel
Bld Package No.01B**

**Troy School District
Troy, Michigan**

DRAWING TITLE

Site Landscape Plan

ISSUE DATES

1	2
3	4
5	6
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11	12
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