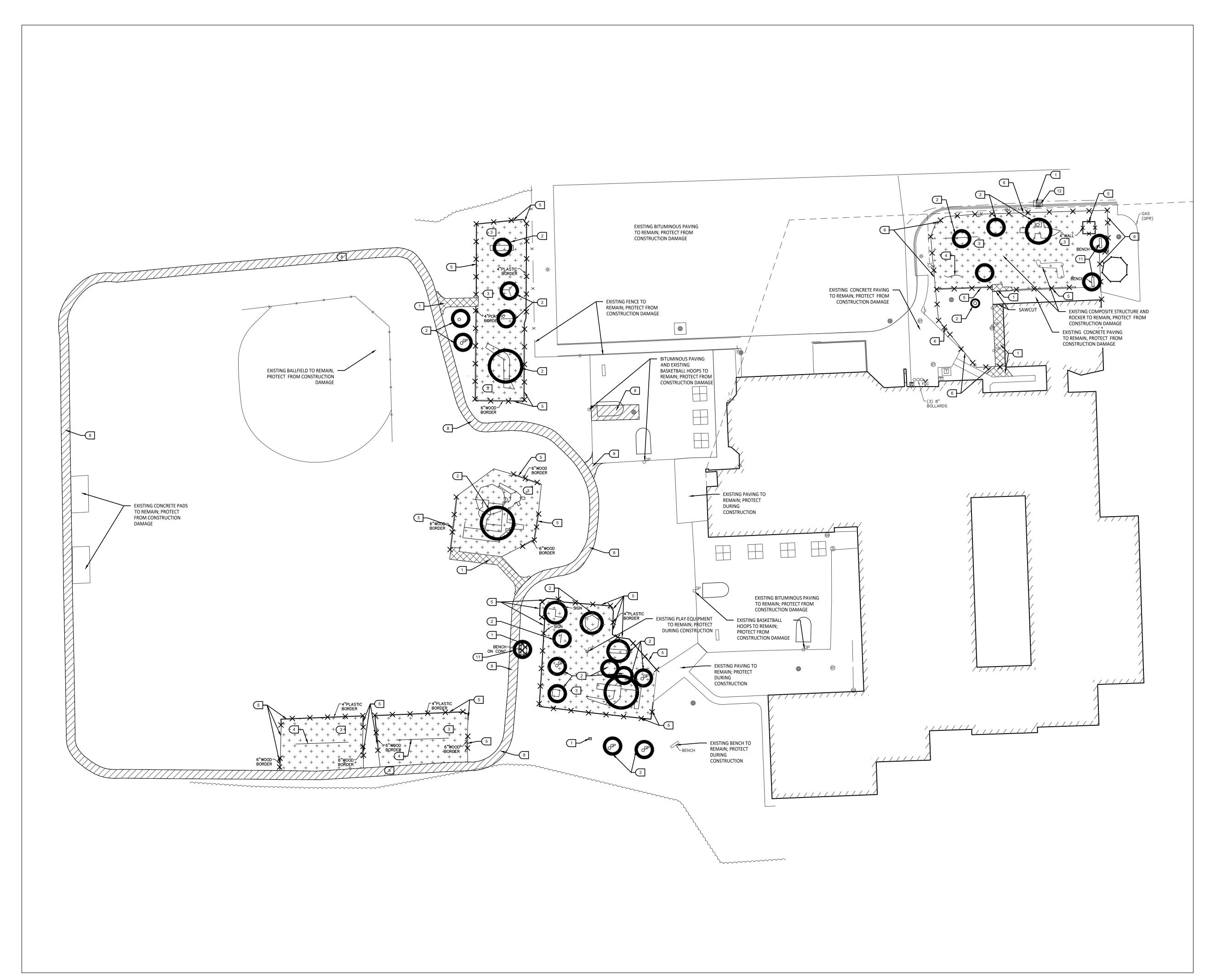
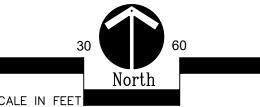


OF CONSTRUCTION)



Overall Demolition Plan

Scale: 1" = 30'-0"



## **DEMOLITION NOTES:**

- SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MI, 48326. 248-689-9090.
- VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
- PROTECT ALL TREES & EXISTING FEATURES TO REMAIN AS SPECIFIED.
- REFER TO LAYOUT PLAN FOR LIMITS OF WORK.
- DISCREPANCIES BETWEEN SITE AND PLANS SHOULD BE REPORTED TO THE PROJECT MANAGER IMMEDIATELY.
- 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.
- ALL PAVEMENT DEMOLITION TO BE SAWCUT AND REMOVED COMPLETELY, INCLUDING BASE/SUBBASE MATERIALS.
- 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.
- 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.

## ■ 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.
- 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 SAWCUT AND REMOVE CONCRETE PAVEMENT, INCLUDING SUBBASE REMOVE PLAY SAFETY SURFACING INCLUDING DRAINAGE AGGREGATE

> NO WORK, PARKING OR STORAGE IN THIS SHADED AREA

SAWCUT & REMOVE CONCRETE CURB & GUTTER

REMOVE MISCELLANEOUS FEATURE AS NOTED

LIGHTING PER ELEC. PLAN

• — • TEMPORARY TREE PROTECTION FENCE, REFER TO DETAIL 1/C4.0

## TREE PROTECTION NOTES:

PROVIDE AND MAINTAIN TEMPORARY TREE PROTECTION FENCING IN ALL LOCATIONS MARKED TO ANY WORK ON SITE (INCLUDING TOPSOIL STRIPPING OPERATIONS). REFER TO THE FOLLOWING NOTES AND THE SPECIFICATIONS FOR TREE PROTECTION REQUIREMENTS.

- NO CONSTRUCTION OPERATIONS, EQUIPMENT, MATERIALS OR TOPSOIL SHALL BE
- ALLOWED WITHIN THE TREE PROTECTION AREAS. EXISTING GROUND COVER AND TOPSOIL SHALL NOT BE REMOVED FROM TREE
- PROTECTION AREAS DURING EARTHWORK PHASE. VEHICULAR TRAFFIC, PARKING, EQUIPMENT OR MATERIAL STORAGE MAY NOT OCCUR
- WITHIN THE TREE PROTECTION AREAS AT ANY TIME. NO EXCAVATION SHALL BE MADE WITHIN THE TREE PROTECTION AREAS EXCEPT AS



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PH 248.388.4561 FX 248.388.0223

EM INFO TMP-ARCHITECTURE.COM

**REGISTRATION SEAL** 

CONSULTANT



141 E. Michigan Avenue, Suite 500 Kalamazoo Michigan 49007 Phone (269) 381-3357 Fax (269) 381-2944

PROJECT TITLE

## Leonard Elementary School Playground Renovation Bid Package No.01A

Troy School District Troy, Michigan

DRAWING TITLE

Demolition Plan

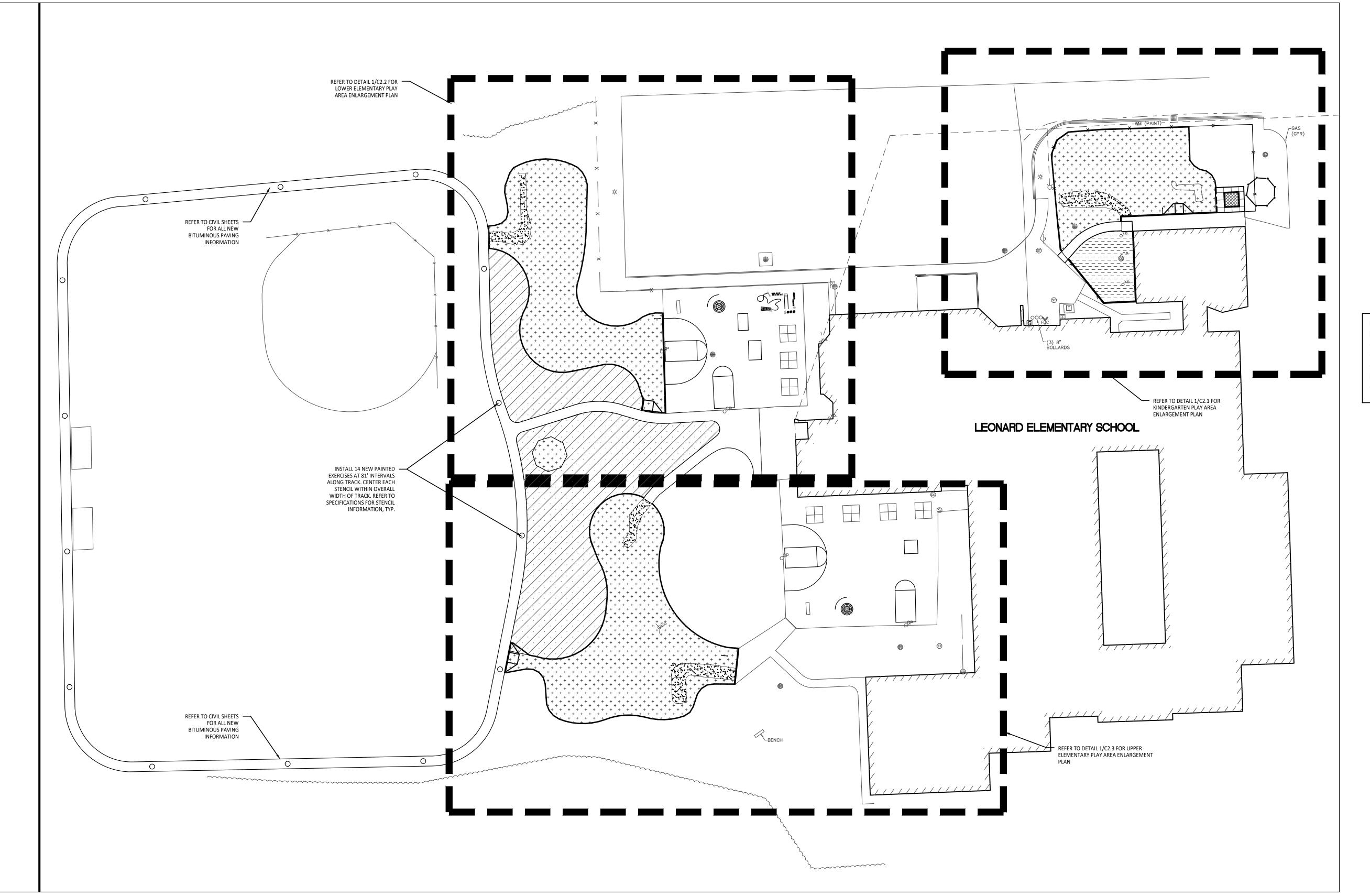
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PROJECT NO.

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DRAWING NO. **C1.0** 



## LAYOUT NOTES:

SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN 48326, (248)689-9090.

PAVEMENT DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT OR BACK OF

CURB. PLASTIC EDGING MEASURED TO/FROM CENTER OF PIN. DISCREPANCIES BETWEEN SITE AND PLANS SHOULD BE REPORTED TO THE PROJECT

MANAGER IMMEDIATELY.

VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.

PROVIDE BARRIER FREE PARKING SIGNS FOR ALL BARRIER FREE PARKING SPACES. ALL SIGNS TO COMPLY WITH THE MDOT MICHIGAN MANUAL OF UNIFORM TRAFFIC

SITE LAYOUT POINTS SHOULD BE ESTABLISHED AND PROTECTED FOR FUTURE SITE

## 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 1487-05 AND MANUFACTURER'S WRITTEN RECOMMENDATIONS.

## 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

\* SITE CONTRACTOR TO EXCAVATE AREA AS SHOWN ON CONSTRUCTION DOCUMENTS. \* SITE CONTRACTOR TO INSTALL UNDERDRAINS AS SHOWN ON CONSTRUCTION DOCUMENTS. SITE CONTRACTOR

\* 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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# CONSULTANT

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

## PROJECT TITLE

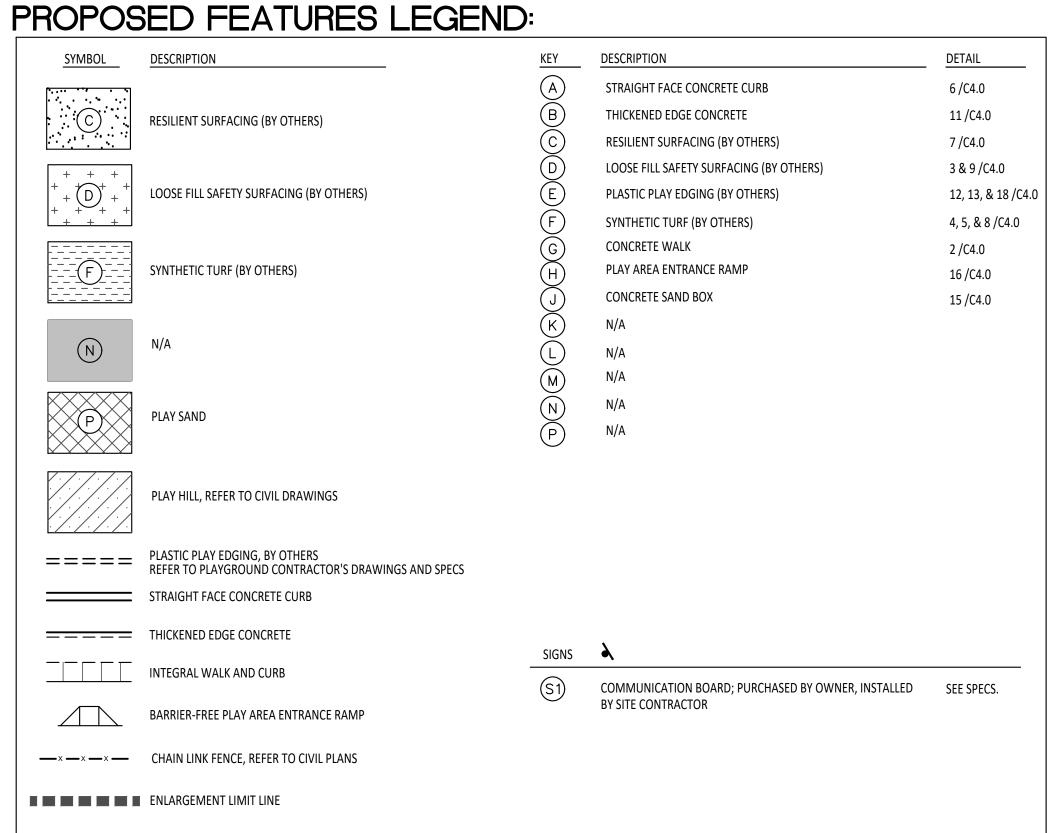
## Leonard **Elementary School** Playground Remodel Bid Package No.01B

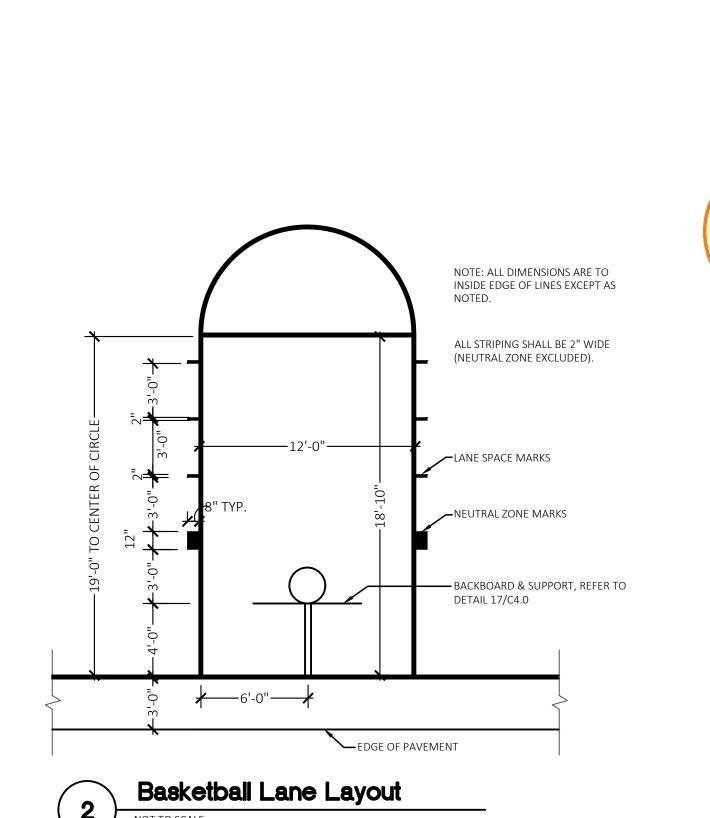
Troy School District Troy, Michigan

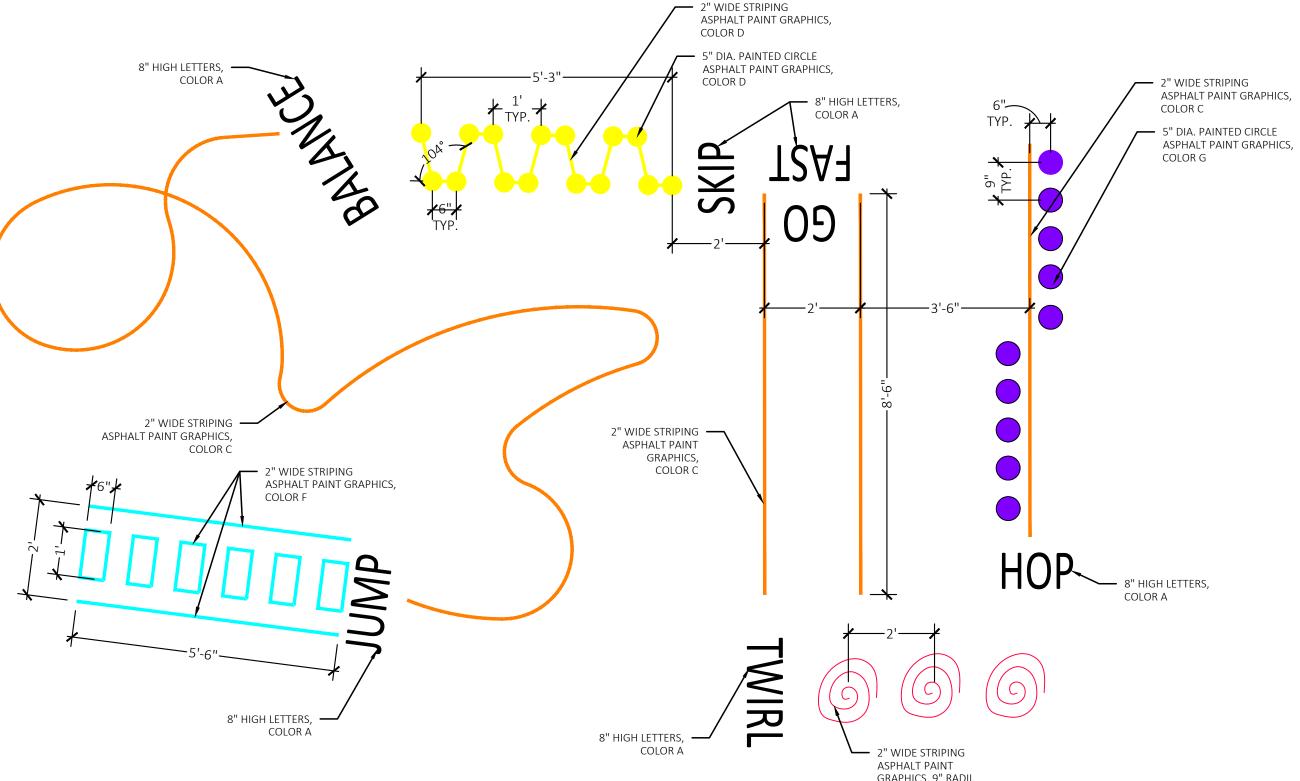
Overall Playground Layout Plan

Overall Playground Layout Plan

Scale: 1" = 30'-0"







Silly Track Layout

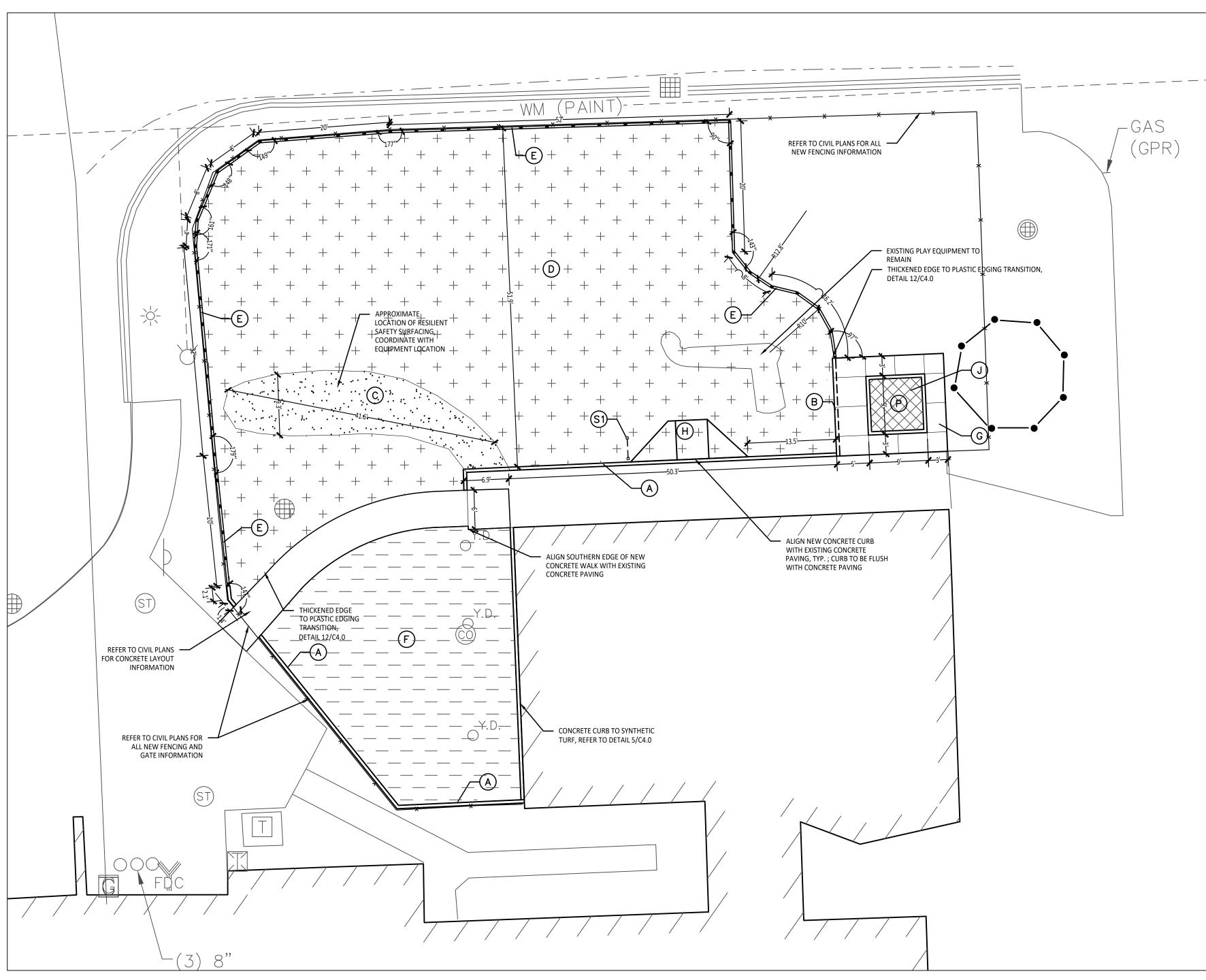
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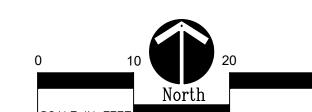
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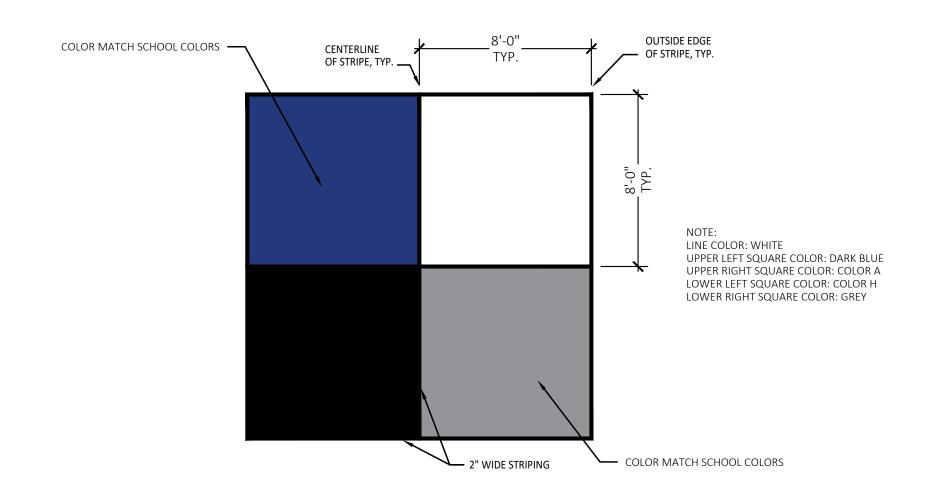
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**C2.0** 



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





3 4 Square Layout Detail

Not to Scale

## 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.

RESILIENT SURFACING (BY OTHERS)

SYNTHETIC TURF (BY OTHERS)

PLAY HILL, REFER TO CIVIL DRAWINGS

REFER TO PLAYGROUND CONTRACTOR'S DRAWINGS AND SPECS

PLASTIC PLAY EDGING, BY OTHERS

INTEGRAL WALK AND CURB

—x—x—x— CHAIN LINK FENCE, REFER TO CIVIL PLANS

\* SITE CONTRACTOR TO EXCAVATE AREA AS SHOWN ON CONSTRUCTION DOCUMENTS.

BARRIER-FREE PLAY AREA ENTRANCE RAMP

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

\* SITE CONTRACTOR TO INSTALL UNDERDRAINS AS SHOWN ON CONSTRUCTION DOCUMENTS. SITE CONTRACTOR

O USE LAYOUT SERVICES FROM CADD FILES FOR INSTALLATION TO ENSURE THAT THE UNDERDRAINS ARE INSTALLED IN THE

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

STRAIGHT FACE CONCRETE CURB

===== THICKENED EDGE CONCRETE

■ ■ ■ ■ ■ ENLARGEMENT LIMIT LINE

LOOSE FILL SAFETY SURFACING (BY OTHERS)

PROPOSED FEATURES LEGEND:

SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN 48326, (248)689-9090.

LAYOUT NOTES:

STRAIGHT FACE CONCRETE CURB

RESILIENT SURFACING (BY OTHERS)

PLASTIC PLAY EDGING (BY OTHERS)

SYNTHETIC TURF (BY OTHERS)

PLAY AREA ENTRANCE RAMP

CONCRETE WALK

CONCRETE SAND BOX

SYMBOL DESCRIPTION

10

11

SKELLY BOARD

**FOUR SQUARE** 

BASKETBALL LANE LAYOUT

BASKETBALL LANE W/ 3 POINT LINE

LOOSE FILL SAFETY SURFACING (BY OTHERS)

THICKENED EDGE CONCRETE

- PAVEMENT DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT OR BACK OF
- CURB. PLASTIC EDGING MEASURED TO/FROM CENTER OF PIN. DISCREPANCIES BETWEEN SITE AND PLANS SHOULD BE REPORTED TO THE PROJECT
- VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
- PROVIDE BARRIER FREE PARKING SIGNS FOR ALL BARRIER FREE PARKING SPACES. ALL SIGNS TO COMPLY WITH THE MDOT MICHIGAN MANUAL OF UNIFORM TRAFFIC

6 /C4.0

11 /C4.0

7 /C4.0

3 & 9 /C4.0

12, 13, & 18 /C4.0

4, 5, & 8 /C4.0

2 /C4.0

16 /C4.0

15 /C4.0

REFER TO SPECS

3/ C2.1

2 / C2.0

3 / C2.0

4 / C2.1

SITE LAYOUT POINTS SHOULD BE ESTABLISHED AND PROTECTED FOR FUTURE SITE

PAINTED GAMES SCHEDULE:



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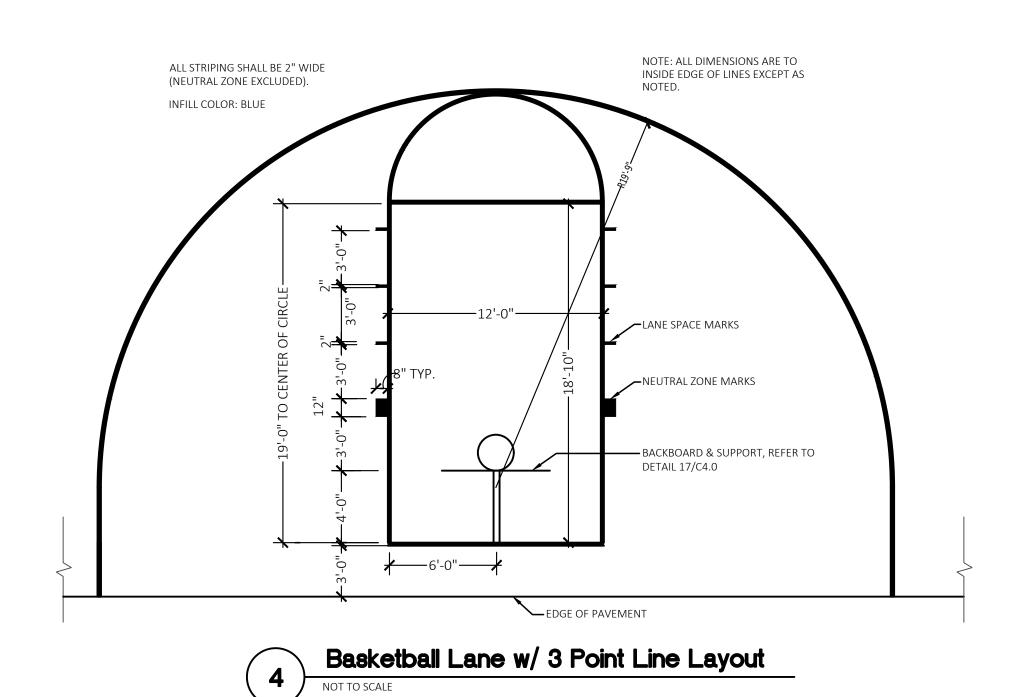
Parks & Recreation

PROJECT TITLE

## Leonard Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

DRAWING TITLE
Playground Layout
Enlargement Plans

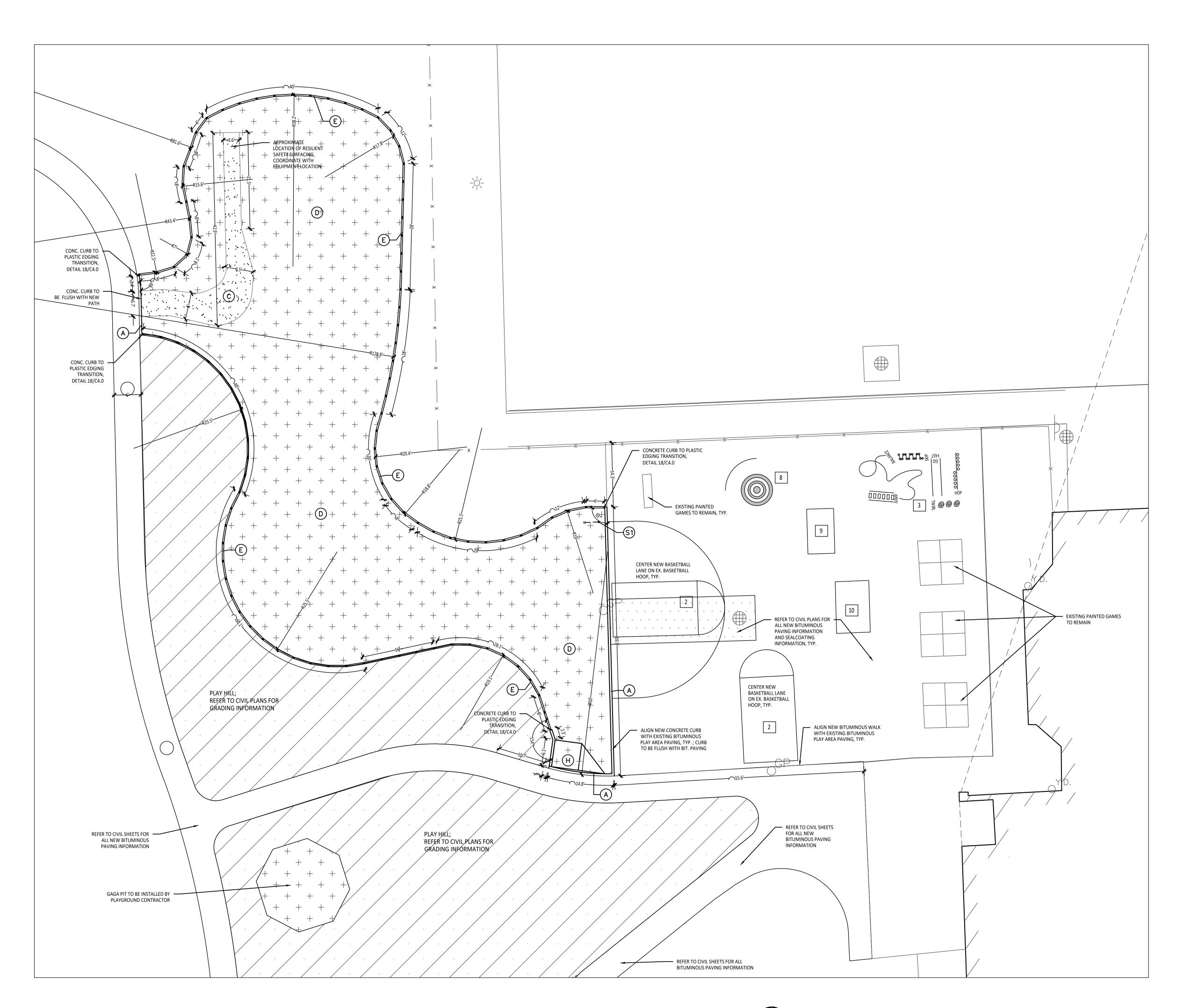


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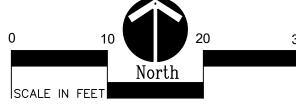
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**C2.1** 



Playground Layout Enlargement Plan - Lower Elementary

| Scale: 1" = 10'-0"



## 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	N/A	
5	N/A	
6	N/A	
7	BASKETBALL LANE W/ 3 POINT LINE	4 / C2.1
8	BULLSEYE GAME	
9	ROBOT HOPSCOTCH	
10	ALPHABET SNAKE	
11	SKELLY BOARD	

## LAYOUT NOTES:

 SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN 48326, (248)689-9090.

CURB. PLASTIC EDGING MEASURED TO/FROM CENTER OF PIN.

- AUBURN HILLS, MICHIGAN 48326, (248)689-9090.

  PAVEMENT DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT OR BACK OF
- 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.

## 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:

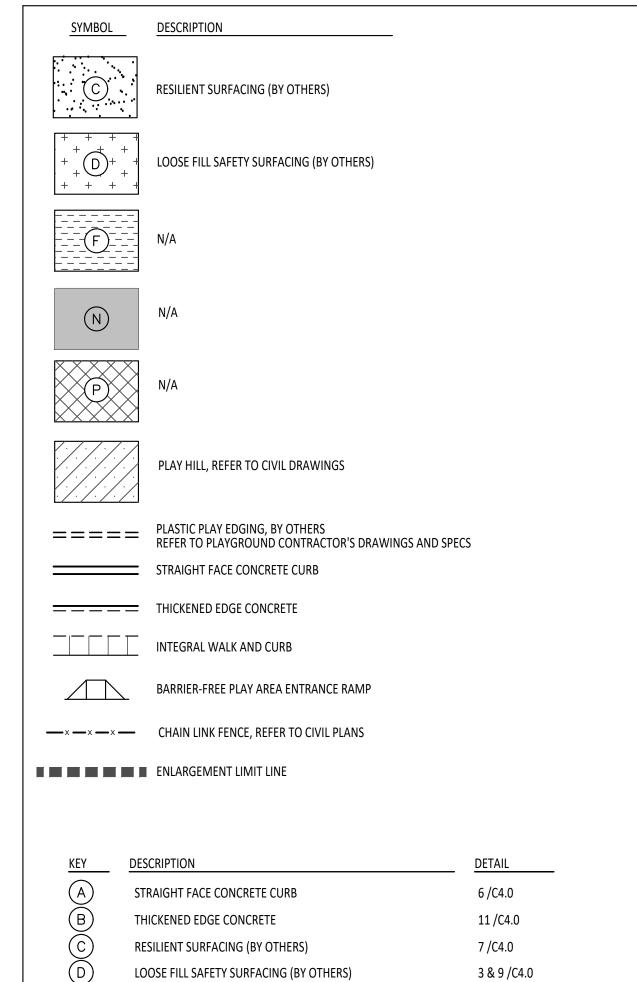
- 1:50 (2%) MAXIMUM CROSS-SLOPE ON ACCESSIBLE ROUTE. - NO CHANGES IN LEVEL GREATER THAN 1/2" ALONG ACCESSIBLE ROUTE.

- 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.

## PROPOSED FEATURES LEGEND:



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

PLASTIC PLAY EDGING (BY OTHERS)

BASKETBALL HOOP POLE (BY OTHERS)

SYNTHETIC TURF (BY OTHERS)

PLAY AREA ENTRANCE RAMP

CONCRETE SAND BOX

## 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:

12, 13, & 18 /C4.0

4, 5, & 8 /C4.0

2 /C4.0

16 /C4.0

15 /C4.0 17 /C4.0

\* 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.



T M P A R C H I T E C T U R E I N C

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

## PROJECT TITLE

# Leonard Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

Playground Layout Enlargement Plans

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10-03-2024	CONSTRUCTION DOCUMENTS	
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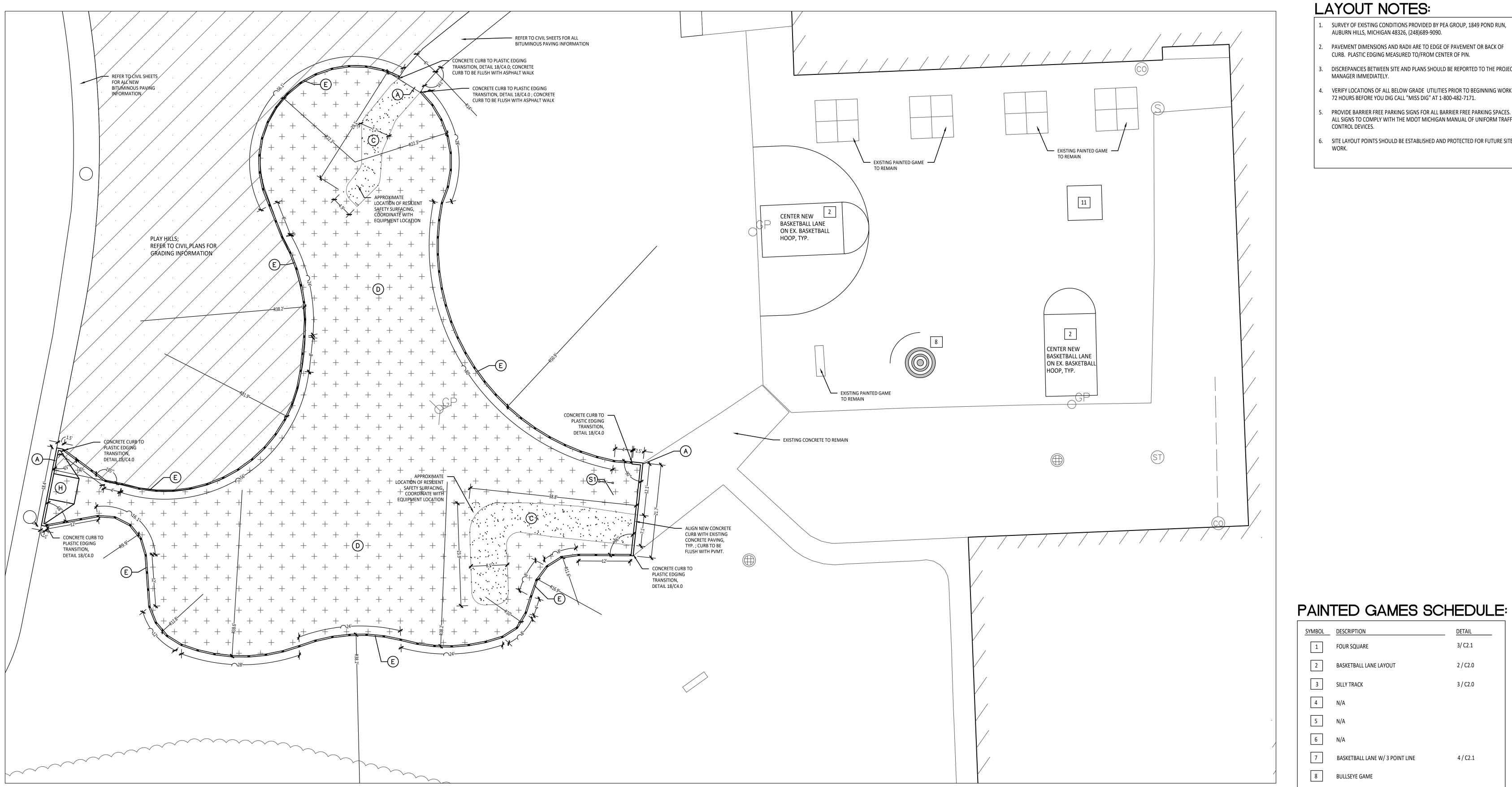
APPROVED DID

PROJECT NO.

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**CHECKED** DID

DRAWING NO.



Playground Layout Enlargement Plan - Upper Elementary

| Scale: 1" = 10'-0"

LAYOUT NOTES:

SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN 48326, (248)689-9090.

- PAVEMENT DIMENSIONS AND RADII ARE TO EDGE OF PAVEMENT OR BACK OF
- CURB. PLASTIC EDGING MEASURED TO/FROM CENTER OF PIN. DISCREPANCIES BETWEEN SITE AND PLANS SHOULD BE REPORTED TO THE PROJECT
- VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
- PROVIDE BARRIER FREE PARKING SIGNS FOR ALL BARRIER FREE PARKING SPACES. ALL SIGNS TO COMPLY WITH THE MDOT MICHIGAN MANUAL OF UNIFORM TRAFFIC
- SITE LAYOUT POINTS SHOULD BE ESTABLISHED AND PROTECTED FOR FUTURE SITE



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## PROJECT TITLE

3/ C2.1

2 / C2.0

3 / C2.0

11 /C4.0

7 /C4.0

2 /C4.0

16 /C4.0

15 /C4.0

17 /C4.0

3 & 9 /C4.0

12, 13, & 18 /C4.0

BASKETBALL LANE LAYOUT

BASKETBALL LANE W/ 3 POINT LINE

SILLY TRACK

**BULLSEYE GAME** 

ALPHABET SNAKE

SKELLY BOARD

STRAIGHT FACE CONCRETE CURB

PLASTIC PLAY EDGING (BY OTHERS)

PLAY AREA ENTRANCE RAMP

BASKETBALL HOOP POLE (BY OTHERS)

CONCRETE SAND BOX

LOOSE FILL SAFETY SURFACING (BY OTHERS)

ROBOT HOPSCOTCH

## Leonard Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

DRAWING TITLE Playground Layout Enlargement Plans

## PROPOSED FEATURES LEGEND:

	RESILIENT SURFACING (BY OTHERS)
+ + + + + + + D + + + + + +	LOOSE FILL SAFETY SURFACING (BY OTHERS)
F	N/A
	N/A

## 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:

CONTRACTOR COORDINATION NOTES:

CONSTRUCTION MANAGER. THE INSTALLATION PROCESS FOR THE PLAYGROUND SAFETY SURFACING SHOULD BE AS

- 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.

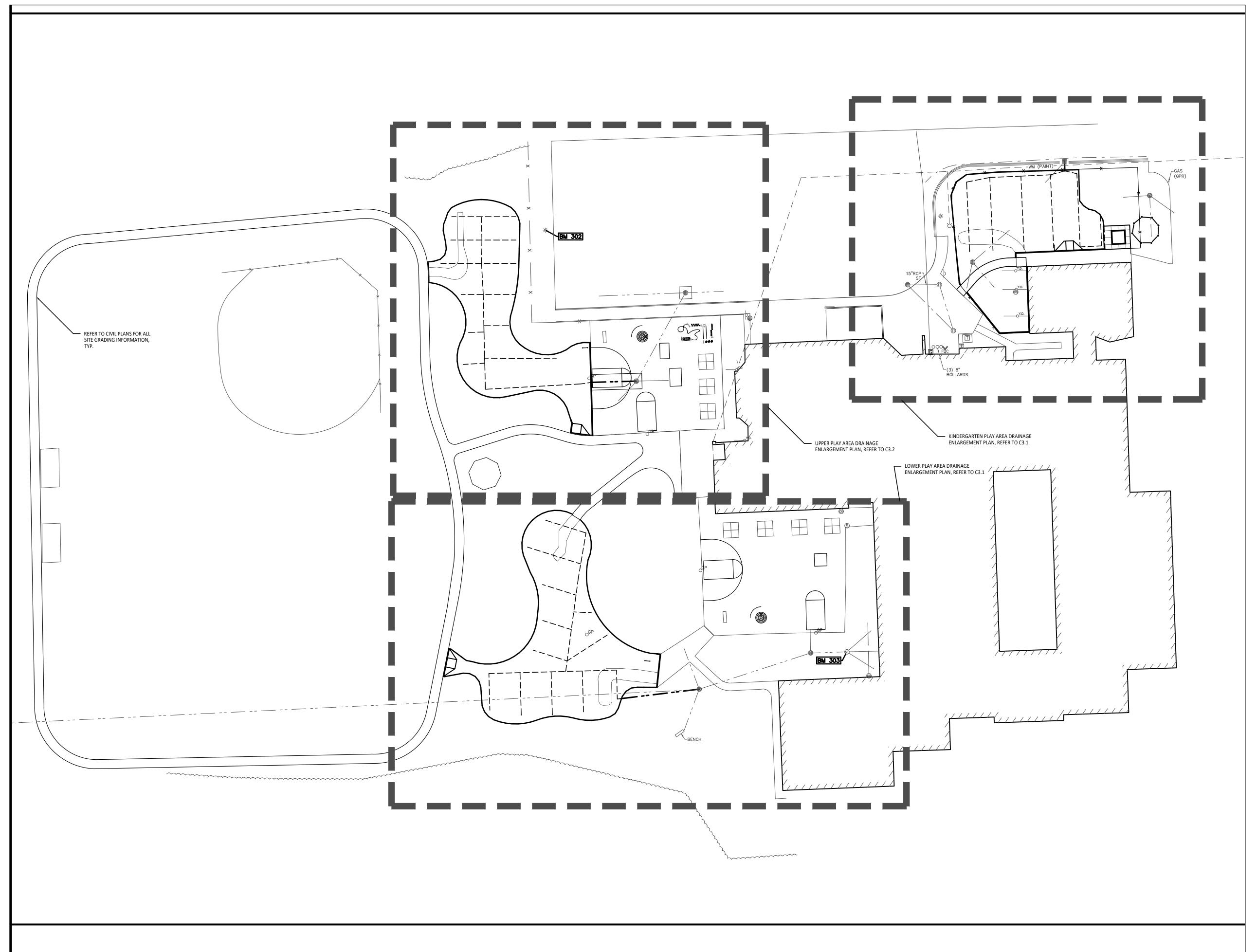
NOTE: PLAYGROUND EQUIPMENT AND SURFACING PURCHASE AND INSTALLATION IS UNDER SEPARATE CONTRACT AND IS NOT INCLUDED IN THIS BID PACKAGE. CONTRACTOR IS REQUIRED TO COORDINATE INSTALLATION OF PLAYGROUND EQUIPMENT AND SURFACING WITH PLAYGROUND INSTALLER PRIOR TO ANY EXCAVATION AND CONCRETE CURBING OR PAVING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

PLAY HILL, REFER TO CIVIL DRAWINGS SIGNS ===== PLASTIC PLAY EDGING, BY OTHERS
REFER TO PLAYGROUND CONTRACTOR'S DRAWINGS AND SPECS COMMUNICATION BOARD; PURCHASED BY OWNER, INSTALLED SEE SPECS. BY SITE CONTRACTOR STRAIGHT FACE CONCRETE CURB THICKENED EDGE CONCRETE \_\_\_\_\_ INTEGRAL WALK AND CURB BARRIER-FREE PLAY AREA ENTRANCE RAMP —x—x—x— CHAIN LINK FENCE, REFER TO CIVIL PLANS ■ ■ ■ ■ ■ ■ ENLARGEMENT LIMIT LINE

**ISSUE DATES** DATE: **DRAWN** DID **CHECKED** DID **APPROVED** DID

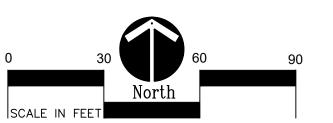
PROJECT NO.

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Overall Playground Grading Plan

1" = 30'-0"



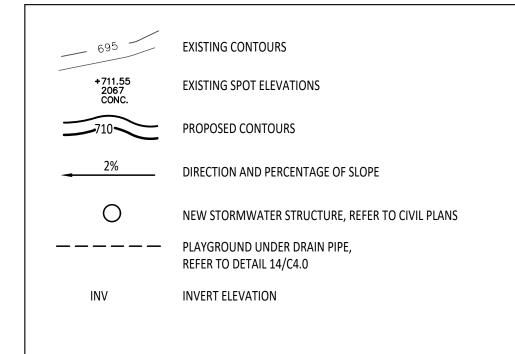
## **GRADING NOTES:**

- SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN, 48326, (248)689-9090.

  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 TURE AREAS ARE INTENDED TO DRAIN FREELY WITH NO PONDING. IF THIS CANNOT BE ACHIEVED USING
  - 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.
  - ADJUST TOP OF EXISTING MANHOLES, CATCH BASINS, VAULT COVERS, ETC. TO NEW FINISH GRADE AS REQUIRED.
  - 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:



## 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.

## 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

\* 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 SAFET SURFACING.



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

## PROJECT TITLE

# Leonard Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

DRAWING TITLE
Overall Playground
Drainage Plan

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PROJECT NO.

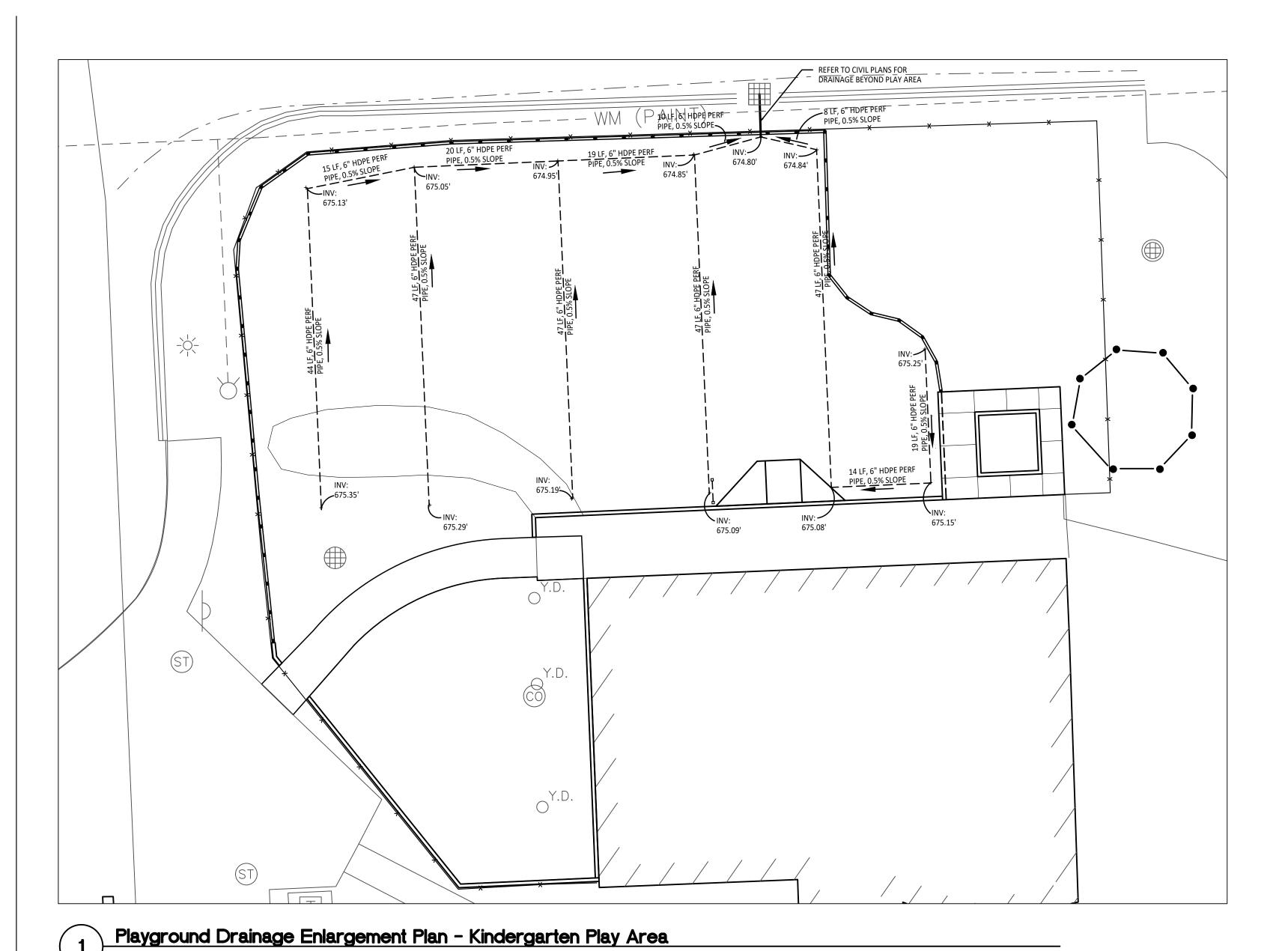
DRAWING NO.

## 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

IMPORTANT NOTE



## **GRADING NOTES:**

- SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN, 48326, (248)689-9090. VERIFY LOCATIONS OF ALL BELOW GRADE UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171.
- 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. . ALL NEW PAVEMENT ELEVATIONS AT EXTERIOR DOORS SHALL MATCH EXISTING FINISH FLOOR ELEVATIONS, TYPICAL.
- ADJUST TOP OF EXISTING MANHOLES, CATCH BASINS, VAULT COVERS, ETC. TO NEW FINISH GRADE AS REQUIRED.
- SEE SITE CIVIL PLANS FOR ALL ADDITIONAL SITE UTILITY DEMOLITION AND CONSTRUCTION.
- 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:

**EXISTING CONTOURS** 

**EXISTING SPOT ELEVATIONS** 

PROPOSED SPOT ELEVATIONS

REFER TO DETAIL 14/C4.0

INVERT ELEVATION

— — — — PLAYGROUND UNDER DRAIN PIPE,

DIRECTION AND PERCENTAGE OF SLOPE

NEW STORMWATER STRUCTURE, REFER TO CIVIL PLANS



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## PROJECT TITLE Leonard Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

DRAWING TITLE
Playground Drainage
Enlargements Plan

# DRAWN **CHECKED** DID **APPROVED** DID

PROJECT NO. 22091B

DRAWING NO. C3.1

**ISSUE DATES** 

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.

## 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

\* SITE CONTRACTOR TO EXCAVATE AREA AS SHOWN ON CONSTRUCTION DOCUMENTS. \* SITE CONTRACTOR TO INSTALL UNDERDRAINS AS SHOWN ON CONSTRUCTION DOCUMENTS. SITE CONTRACTOR

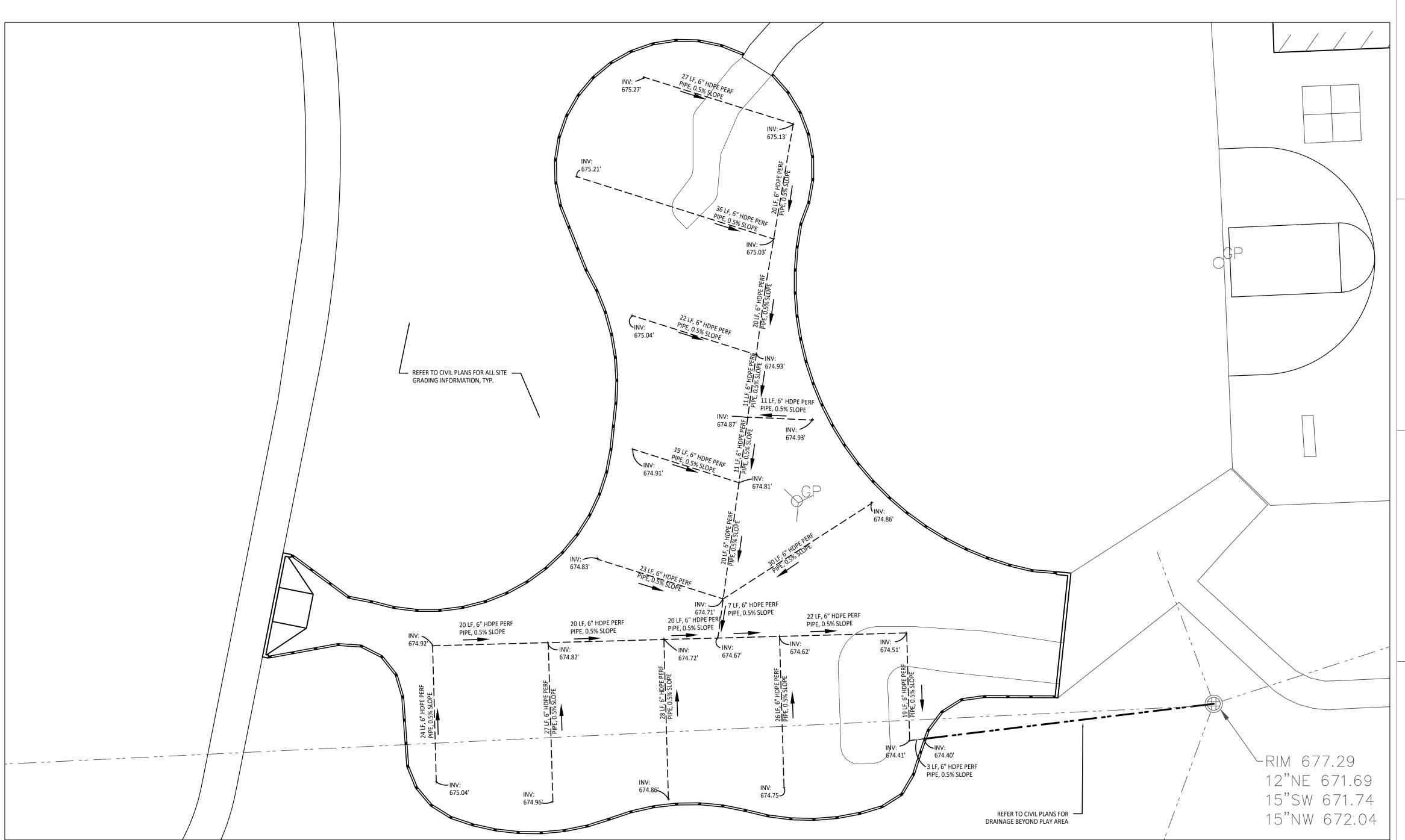
CORRECT LOCATIONS. \* THE SITE CONTRACTOR WILL THEN INSTALL THE DRAINAGE AGGREGATE, TAKING CARE TO NOT DAMAGE 1 THE PLAYGROUND CONTRACTOR PRIOR TO INSTALLATION AS THE DEPTHS VARY BETWEEN PLAYGROUND CONTRACTOR \* THE PLAYGROUND CONTRACTOR WILL INSTALL THE GEOTEXTILE FABRIC, PLAYGROUND EQUIPMENT, AND SAFE

IMPORTANT NOTE

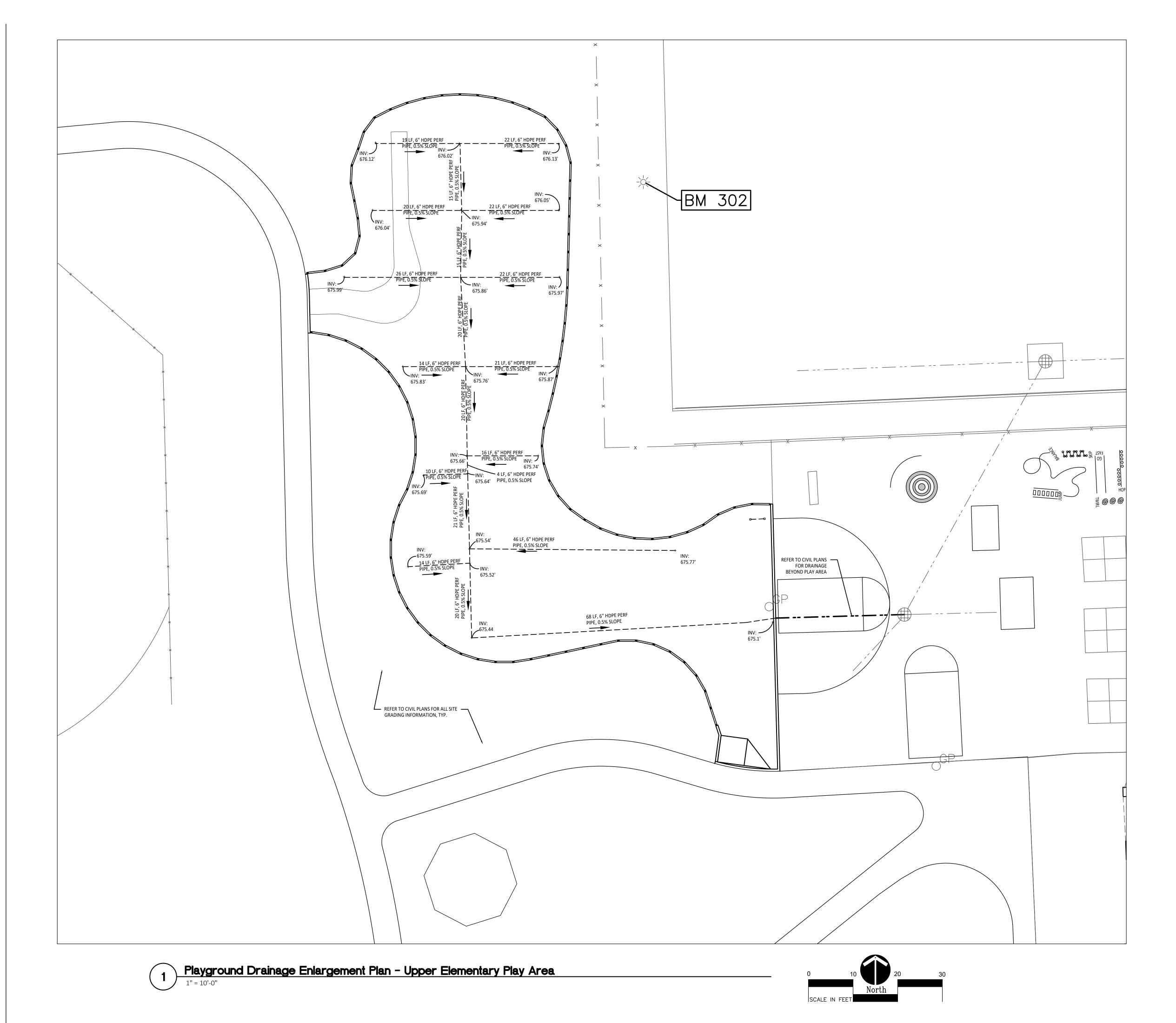
## GENERAL EARTHWORK NOTE:

CUTS AND FILLS AT THIS SITE MAY OR MAY NOT BALANCE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE REQUIRED EARTHWORK YOLUMES 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



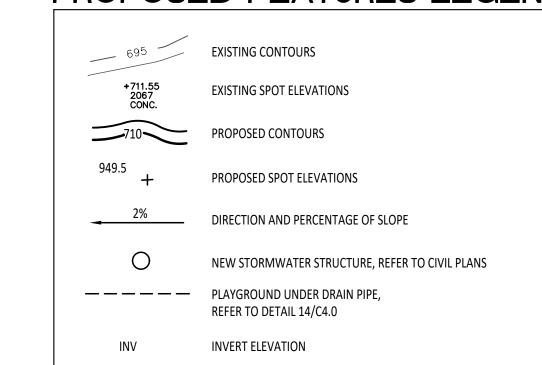
Playground Drainage Enlargement Plan - Lower Elementary Play Area



GRADING NOTES:

- SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN, 48326, (248)689-9090.
   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
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  - ALL NEW PAVEMENT ELEVATIONS AT EXTERIOR DOORS SHALL MATCH EXISTING FINISH FLOOR ELEVATIONS, TYPICAL.
     ADJUST TOP OF EXISTING MANHOLES, CATCH BASINS, VAULT COVERS, ETC. TO NEW FINISH GRADE AS REQUIRED.
  - 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:



BARRIER-FREE PARKING AND ACCESSIBLE ROUTE(S) MUST COMPLY WITH THE AMERICANS WITH DISABILITIES ACT AND

- 1:20 (5%) MAXIMUM LONGITUDINAL SLOPE ON ACCESSIBLE ROUTE (EXCEPT WHERE RAMPS ARE PROVIDED).

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

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\* THE SITE CONTRACTOR WILL THEN INSTALL THE DRAINAGE AGGREGATE, TAKING CARE TO NOT DAMAGE THE

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 SAFET

MICHIGAN BARRIER-FREE CODE REQUIREMENTS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

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- NO CHANGES IN LEVEL GREATER THAN 1/2" ALONG ACCESSIBLE ROUTE.

- 1:50 (2%) MAXIMUM SLOPE (IN ANY DIRECTION) IN B.F. PARKING AND ACCESS AISLES.

\* SITE CONTRACTOR TO EXCAVATE AREA AS SHOWN ON CONSTRUCTION DOCUMENTS.



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

### PROJECT TITLE

# Leonard Elementary School Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

Playground Drainage Enlargements Plan

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10-03-2024	CONSTRUCTION DOCUMENTS
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\_ PROJECT NO.

22091B

**ISSUE DATES** 

DRAWING NO.

C3.2

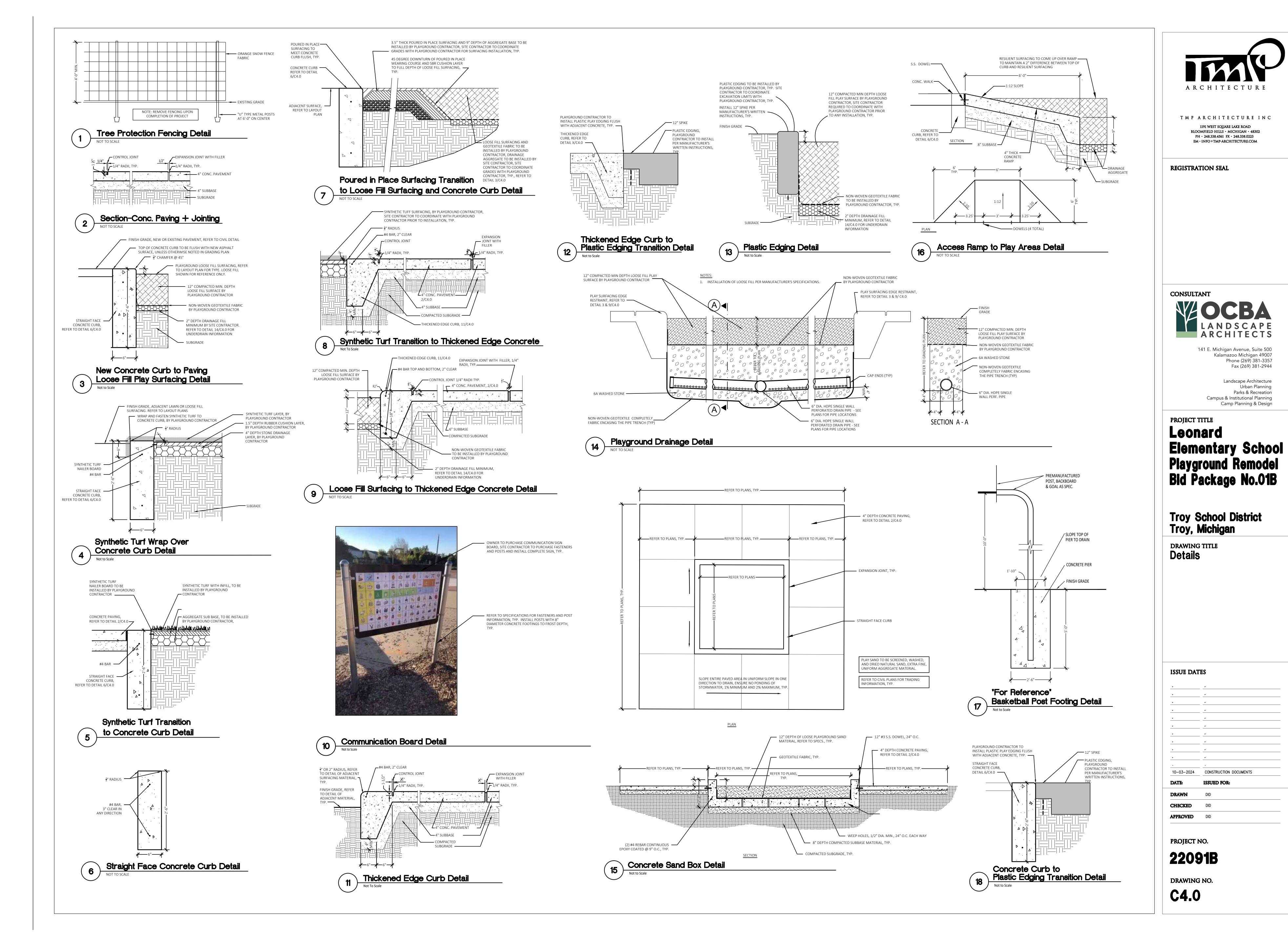
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IMPORTANT NOTE

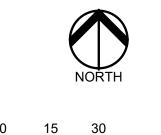
## GENERAL EARTHWORK NOTE:

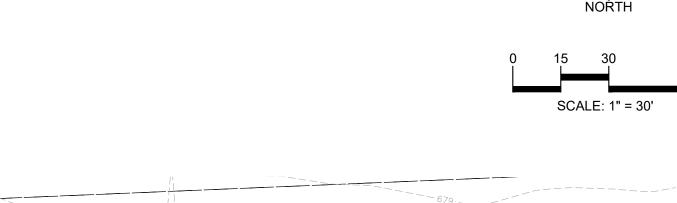
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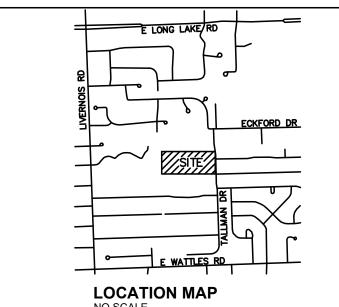
IMPORTANT NOTE



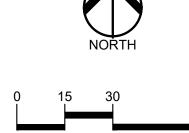


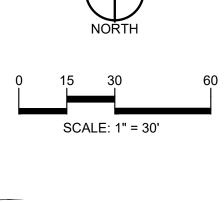


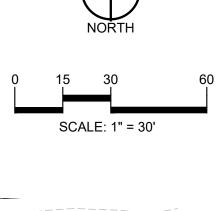


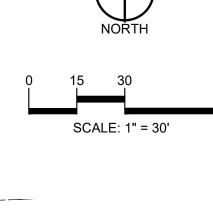


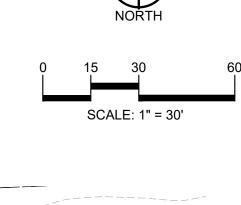
FLOODPLAIN NOTE: BY GRAPHICAL PLOTTING, SITE IS WITHIN ZONE 'X', AN AREA DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOODPLAIN, PER FLOOD INSURANCE RATE MAP NUMBER 26125C0534F, DATED SEPTEMBER 29, 2006.

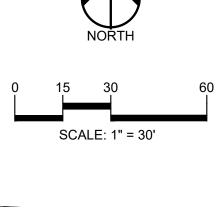


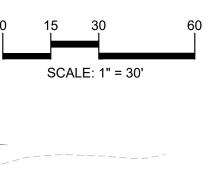












ELECTRIC - DTE ENERGY FIBER OPTICS - COMCAST FIBER OPTICS - TROY SCHOOL DISTRICT FIBER OPTICS - WOW FIBER OPTICS - WINDSTREAM COMMUNICATION GAS - CONSUMERS TELEPHONE - AT&T

SANITARY SEWER - CITY OF TROY STORM - CITY OF TROY WATER - CITY OF TROY

## REFERENCE DRAWINGS:

LEGEND:

-OH-ELEC-W-O- EX. OH. ELEC, POLE & GUY WIRE -UG-CATV EX. U.G. CABLE TV & PEDESTAL

— - — - — EX. GAS LINE

− — — EX. WATER MAIN

----- EX. SANITARY SEWER

——— -- EX. STORM SEWER

X EX. FENCE EX. GUARD RAIL

EX. WETLAND

UTILITY INFORMATION

CABLE - COMCAST CABLE - WOW

MONUMENT FOUND / SET SECTION CORNER FOUND

○<sup>Y.D.</sup> ® EX. YARD DRAIN & ROOF DRAIN

② EX. UNIDENTIFIED STRUCTURE

M → 按 EX. MAILBOX, SIGN & LIGHTPOLE

EX. SPOT ELEVATION EX. CONTOUR

R M C RECORDED / MEASURED / CALCULATED

∀ 

O 

W EX. HYDRANT, GATE VALVE & POST INDICATOR VALVE

-UG-ELEC-E-E-EX. U.G. ELEC,MANHOLE, METER & HANDHOLE

© GAS EX. GAS VALVE & GAS LINE MARKER 

⊚ S EX. SANITARY CLEANOUT & MANHOLE © EX. COMBINED SEWER MANHOLE

■ ● ■ EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN

CABLE COMMUNICATION WOW

EARTHLINK FIBER, DATED 4-11-23 FIBER OPTICS FIBER OPTICS SANITARY CITY OF TROY GIS ONLINE, DATED 4-11-23 CITY OF TROY GIS ONLINE, DATED 4-11-23 STORM

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

#### BENCHMARKS: (GPS DERIVED - NAVD88)

BM 302 - SET MAG NAIL IN THE EAST SIDE CONCRETE BASE OF LIGHT POLE ALONG THE WEST LINE OF THE NORTH PARKING LOT. ELEVATION: 682.58

BM 303 - SET CHISELED "+" IN THE RIM OF STORM MAN ALONG THE WEST SIDE OF THE BUILDING. ELEVATION: 677.02



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CONSULTANT



PROJECT TITLE

## Leonard Elementary School 4401 TALLLAM DRIVE

Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

DRAWING TITLE
Topographic Survey

**ISSUE DATES** 

10-03-2024 CONSTRUCTION DOCUMENTS 08-21-2024 INTERNAL COORDINATION

**ISSUED FOR:** 

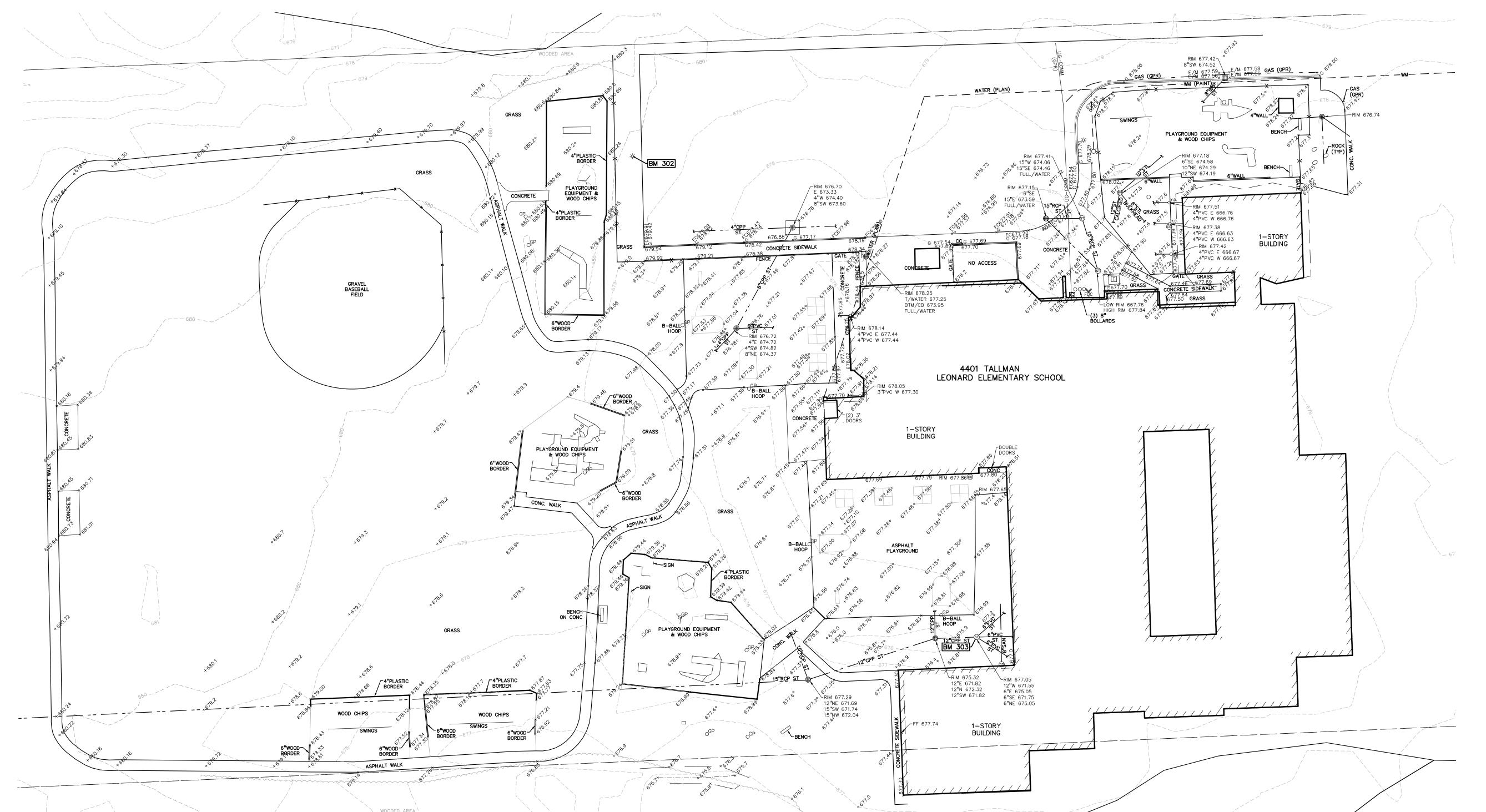
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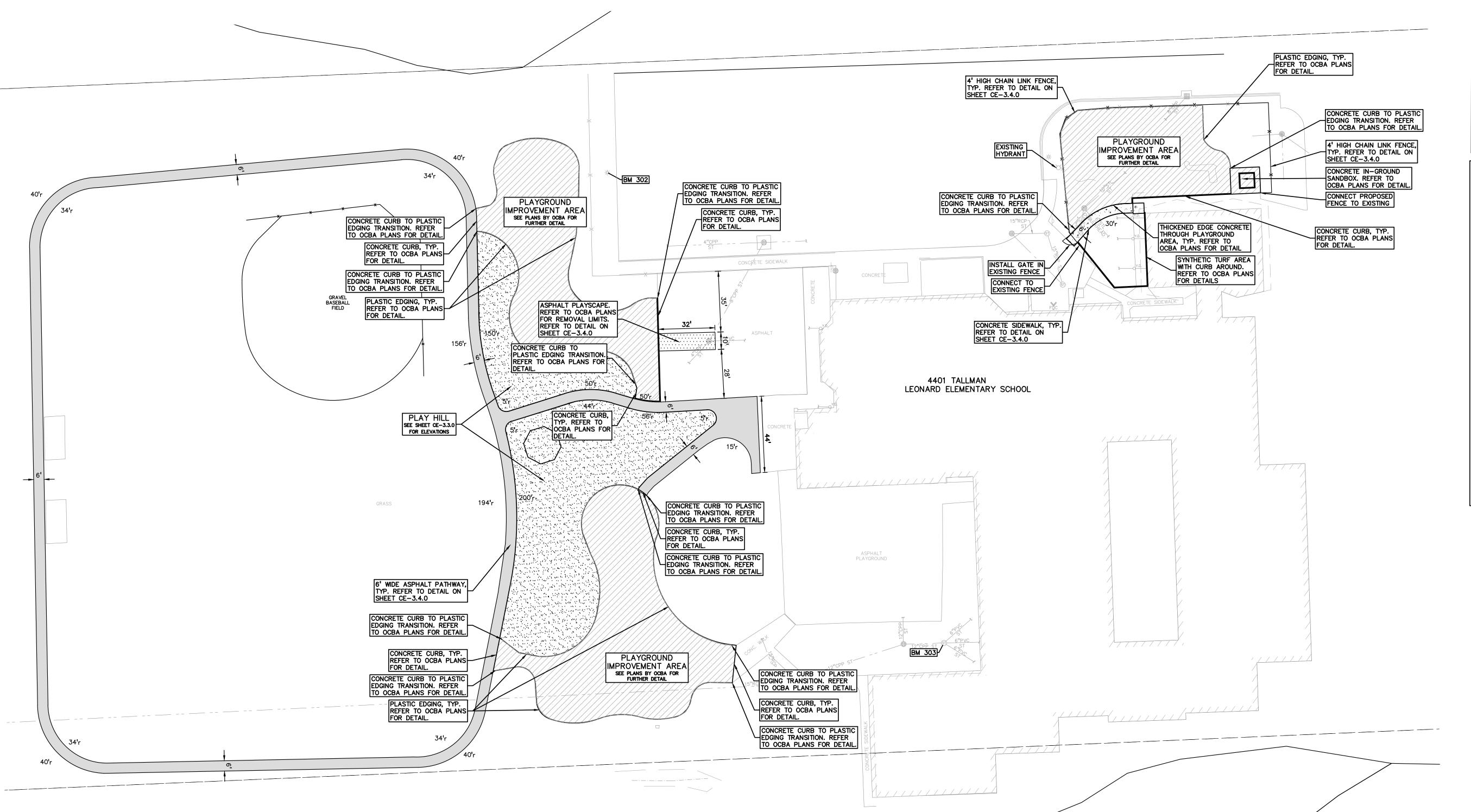
**DRAWN** JG

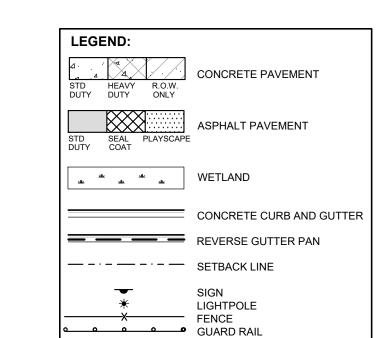
PROJECT NO.

22091B

DRAWING NO. CE-3.1.0









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### 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 PEA GROUP, 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.
- 3. DOWEL INTO EXISTING CURB AND GUTTER 9" WITH EPOXY COATED #4 BAR CONTINUOUS BETWEEN EXISTING AND PROPOSED CURBING.
- 4. REFER TO NOTES AND DETAILS SHEET FOR PAVING DETAILS.
- 5. CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER LINES, ETC.
- 6. 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 USEABLE CONDITION, SHALL BE DISPOSED OF AT NO ADDITIONAL COST TO THE OWNER.
- 7. 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 RIM 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 RIM 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

### SUBGRADE UNDERCUTTING NOTES:

- 1. 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.
- 2. SUBGRADE UNDERCUT SHALL BE EVALUATED BY A QUALIFIED ENGINEERING TECHNICIAN TO DETERMINE IF SUBGRADE STABILIZATION IS NECESSARY. UNDERCUT EXCAVATIONS SHALL BE BACKFILLED WITH MDOT 21AA DENSE GRADED AGGREGATE PLACED IN AN ENGINEERED MANNER. LIFT THICKNESS SHALL NOT EXCEED 9 INCHES. THE USE OF TRI—AXIAL GEOGRID MAY BE USED TO REDUCE UNDERCUT DEPTHS, AS APPROVED BY THE DISTRICT AND PER THE UNIT PRICE PROVIDED WITH THE CONTRACTORS BID.
- 3. 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 MOIUSTURE CONTENT. FROZEN MATERIAL SHALL NOT BE USED AS FILL, NOR SHOULD FILL BE PLACED ON A FROZEN SUBGRADE.
- 6. 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.





CONSULTANT



www.peagroup.com

PROJECT TITLE

Leonard
Elementary School
4401 TALLLAM DRIVE

Playground Remodel Bid Package No.01B

Troy School District Troy, Michigan

Drawing title

Dimension & Paving Plan

ISSUE DATES

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

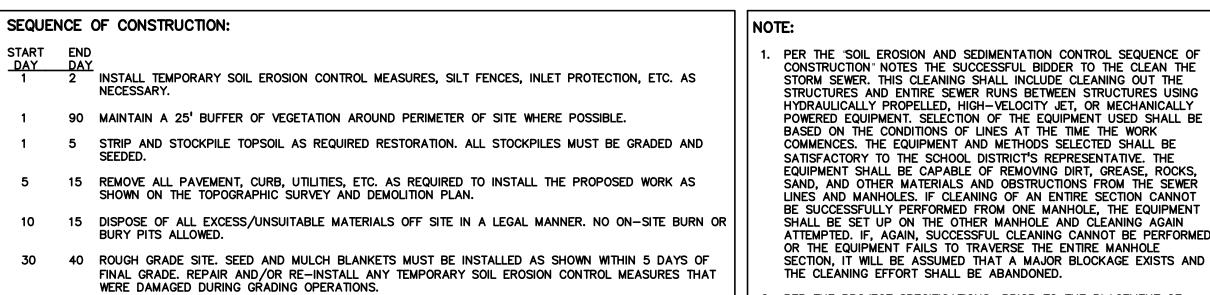
DATE: ISSUED FOR:

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APPROVED TD

PROJECT NO. **22091B** 

DRAWING NO.

CE-3.2.0



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. CAN BE PLACED THROUGHOUT THE AREA. 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. LINES, ETC. 80 89 FINAL GRADE, REDISTRIBUTE STOCKPILED TOPSOIL, ESTABLISH VEGETATION AND INSTALL ALL

PERMANENT LANDSCAPING IN ALL DISTURBED AREAS NOT BUILT.

ACCORDING TO THE USDA NRCS WEB SOIL SURVEY, THE SITE CONSISTS OF

56A URBAN LAND-BLOUNT-LENAWEE COMPLEX, 0 TO 3 PERCENT SLOPES

GENERAL SITE CONDITIONS:

THE FOLLOWING SOIL TYPES:

12 BROOKSTON AND COLWOOD LOAMS 41B AQUENTS, SANDY, LOAMY, UNDULATING

2. TOTAL DISTURBED AREA =  $\pm 1.57$  ACRES

52A SELFRIDGE LOAMY SAND, 0 TO 3 PERCENT SLOPES

88 90 CLEAN PAVEMENT AND REMOVE ALL TEMPORARY SOIL EROSION CONTROL MEASURES. RE-ESTABLISH

90 90 REMOVE SEDIMENTATION CONTROLS ONCE ENTIRE SITE HAS BEEN PERMANENTLY STABILIZED.

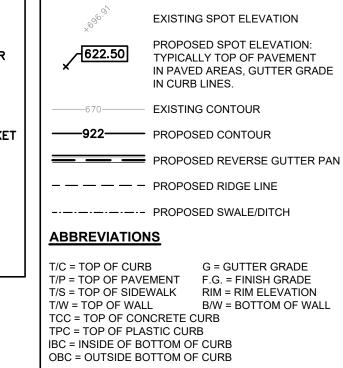
ATTEMPTED. IF, AGAIN, SUCCESSFUL CLEANING CANNOT BE PERFORMED PER THE PROJECT SPECIFICATIONS; PRIOR TO THE PLACEMENT OF TOPSOIL THE SUCCESSFUL BIDDER TO SCHEDULE AN INSPECTION BY THE SCHOOL DISTRICT OR PEA GROUP TO CONFIRM THAT THE GRADE IS AT THE PROPER ELEVATION WHERE THE MINIMUM DEPTH OF TOPSOIL FINISH GRADE . CONTRACTOR TO FIELD VERIFY ALL UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION INCLUDING BUT NOT LIMITED TO: SITE LIGHTING, FIBER

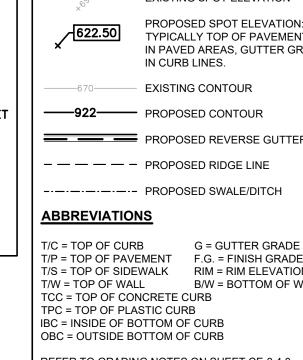
CURB (TPC) OUTSIDE BOTTOM 1" CURB (OBC) INSIDE BOTTOM CURB (IBC) LOOSE FILL PLAY SURFACE TYPICAL GRADING AT PLASTIC CURB OUTSIDE BOTTOM TOP CONCRETE CURB (OBC) CURB (TCC) INSIDE BOTTOM CURB (IBC) LOOSE FILL PLAY SURFACE TYPICAL GRADING AT CONCRETE CURB

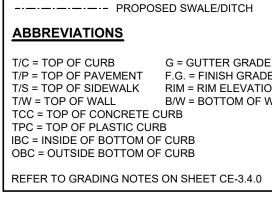
REFER TO OCBA SHEET C4.0 FOR

DETAILS OF CURB SECTIONS

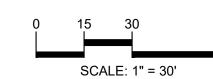
SYMBOLS: EROSION CONTROL: GRADING LEGEND: — □ — (SP-2) SILT FENCE (SI-2A) LOW POINT INLET FILTER (SI-3) RYCB INLET FILTER (E-9) EROSION CONTROL BLANKET LAWN RESTORATION LIMITS OF DISRUPTION REFER TO CITY OF TROY SOIL EROSION AND **ABBREVIATIONS** SEDIMENTATION CONTROL DETAILS SHEET FOR ALL DEVICE DETAILS. T/C = TOP OF CURB T/W = TOP OF WALL













TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS • MICHIGAN • 48302 PH · 248.338.4561 FX · 248.338.0223 EM · INFO @ TMP-ARCHITECTURE.COM

**REGISTRATION SEAL** 

BM 302 - SET MAG NAIL IN THE EAST SIDE CONCRETE BASE OF LIGHT POLE ALONG THE WEST LINE OF THE NORTH PARKING LOT. ELEVATION: 682.58 BM 303 - SET CHISELED "+" IN THE RIM OF STORM MAN ALONG THE WEST SIDE OF THE BUILDING. ELEVATION: 677.02

EARTHWORK BALANCING NOTE:

**UTILITY LEGEND:** 

-OH-ELEC-VV-O- EX. OH. ELEC, POLE & GUY WIRE

JG-CATV-V EX. U.G. CABLE TV & PEDESTAL

- - --- - EX. GAS LINE

JG-COMM---⊠-Ū- EX. U.G. COMMUNICATION LINE, PEDESTAL & MANHOLE

JG-ELEC-E-E-E EX. U.G. ELEC, MANHOLE, METER & HANDHOLE

© EX. GAS VALVE & GAS LINE MARKER

EX. SANITARY SEWER

© S EX. SANITARY CLEANOUT & MANHOLE

EX. CLEANOUT & MANHOLE

EX. YARD DRAIN & ROOF DRAIN

PROPOSED WATER MAIN

PROPOSED SANITARY SEWER

--- PROPOSED STORM SEWER

**BENCHMARKS**:

(GPS DERIVED - NAVD88)

EX. SQUARE, ROUND, & BEEHIVE CATCH BASIN

EX, UNIDENTIFIED STRUCTURE

PROPOSED POST INDICATOR VALVE

○ C.O. ■ PROPOSED STORM SEWER CLEANOUT & MANHOLE

OC.O. PROPOSED SANITARY CLEANOUT & MANHOLE

PROPOSED CATCH BASIN, INLET & YARD DRAIN

PROPOSED TAPPING SLEEVE, VALVE & WELL

▼ ⊗ PROPOSED HYDRANT AND GATE VALVE

EX. COMBINED SEWER MANHOLE

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.

SILT FENCE INLET FILTERS

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:** CONNECT TO EXISTING MANHOLE 3 EA. | EROSION CONTROL QUANTITIES: CONSULTANT

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PROJECT TITLE

Leonard Elementary School
4401 TALLMAN DRIVE

Playground Remodel Bid Package No.01B

**Troy School District** Troy, Michigan

DRAWING TITLE Grading, Utility & Soil **Erosion Control Plan** 

**ISSUE DATES** 

10-03-2024 CONSTRUCTION DOCUMENTS OWNER REVIEW 08-21-2024 INTERNAL COORDINATION

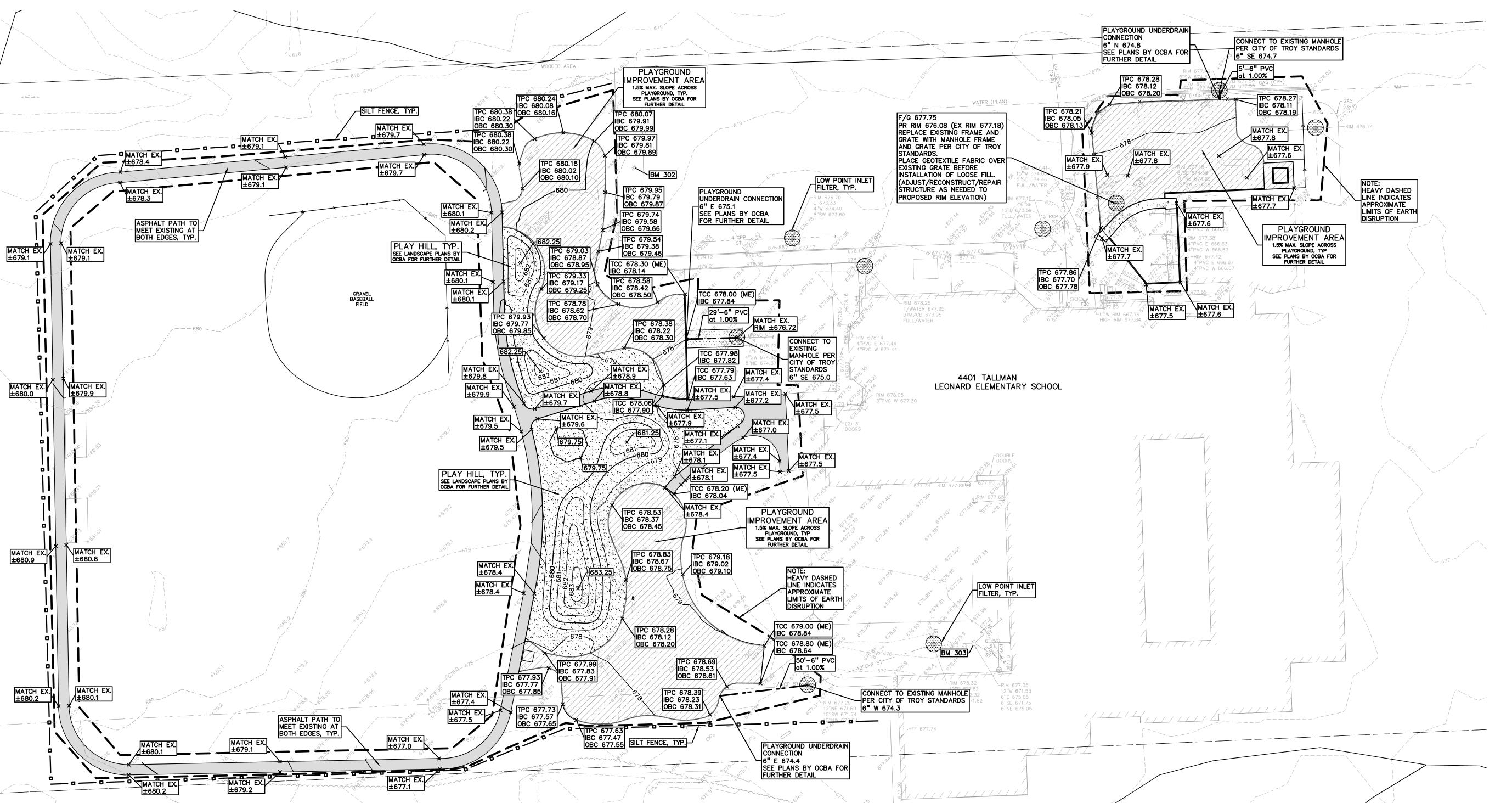
DESIGN DEVELOPMENT ISSUED FOR:

DRAWN CHECKED JW APPROVED TD

PROJECT NO.

22091B DRAWING NO.

**CE-3.3.0** 



SOIL EROSION MAINTENANCE SCHEDULE AND NOTES: THE SOIL EROSION CONTROLS WILL BE MAINTAINED WEEKLY AND AFTER EVERY STORM EVENT BY: ROB CARSON TROY SCHOOL DISTRICT 1140 RANKIN TROY, OAKLAND COUNTY, MICHIGAN 248-823-4067 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

ALL DIRT AND MUD TRACKED ONTO PAVED AREAS SHALL BE REMOVED B THE CONTRACTOR DAILY BY SCRAPING. STREET SWEEPING IS REQUIRED SILT FENCE MAINTENANCE SHALL INCLUDE THE REMOVAL OF ANY BUILT U

THE HEIGHT OF THE FENCE. THE CONTRACTOR IS RESPONSIBLE TO REMOVE, REPLACE, RETRENCH OR REBACKFILL THE SILTATION FENCE SHOULD IT FALL 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 FABRI MUST BE REPLACED. CONTRACTOR TO PROVIDE WATER TRUCK TO WATER DOWN THE SITE ON A DAILY BASIS AS REQUIRED TO MAINTAIN DUST CONTROL. IF HIGH GROUNDWATER IS ANTICIPATED OR ENCOUNTERED DURING CONSTRUCTION A DEWATERING PLAN MUST BE SUBMITTED TO THE CITY

SOIL EROSION AND SEDIMENTATION CONTROL SEQUENCE OF CONSTRUCTION

ENGINEERING DIVISION FOR REVIEW.

SEE OAKLAND COUNTY W.R.C. SOIL EROSION AND SEDIMENTATION CONTRODETAILS SHEET FOR ALL SOIL EROSION CONTROL RELATED DETAILS. PLACE SILT FENCE & INSTALL INLET FILTERS ON EXISTING STORM SEWER STRUCTURES, ACCORDING TO PLANS.

INSTALL TEMPORARY CRUSHED CONCRETE ACCESS DRIVE AT ALL CONSTRUCTION ENTRANCES. (80'x24'x8" W/MINIMUM OF 1"-3" CRUSHED

REMOVE CURB, PAVEMENT, TREES, ETC. AS DIRECTED ON THE DEMOLITION STRIP AND STOCKPILE TOPSOIL FOR RESTORATION REQUIREMENTS.

DISPOSE OF ALL EXCESS, UNSUITABLE MATERIALS OFF SITE IN A LEGAL MANNER. NO BURN OR BURY PITS ALLOWED.

UNSUITABLE MATERIALS CONSIST OF, BUT ARE NOT NECESSARILY LIMITED OR OTHER MISCELLANEOUS DEBRIS OR TRASH.

8. MASS GRADE THE SITE IN ACCORDANCE WITH THE PLANS. . INSTALL HYDROSEED AS SHOWN ON THE PLAN WITHIN 5 DAYS OF COMPLETION OF MASS GRADING OR WHENEVER DISTURBED AREAS WILL

WILL BE USED WHERE VEGETATION IS REQUIRED. 10. COMPLETE ROUGH GRADING OF SITE. PLACE INLET FILTERS AT ALL INLETS

REMAIN UNCHANGED FOR 30 DAYS OR GREATER. MINIMUM 3"-4" TOPSOIL

AND CATCH BASINS, AS SHOWN. . 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 14. ALL DIRT AND MUD TRACKED ONTO PUBLIC ROADS SHALL BE REMOVED

15. STREET CATCH BASINS TO BE PERIODICALLY CLEANED AND FILTER CLOTH CHANGED AND MAINTAINED.

### GENERAL NOTES:

- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT. ALL CONSTRUCTION, WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT OSHA, MDOT AND MUNICIPALITY STANDARDS AND REGULATIONS.
- THE CONTRACTOR SHALL NOTIFY THE CITY OF TROY ENGINEER AND/OR TH AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE
- THE CONTRACTOR MUST CONTACT THE ENGINEER SHOULD THEY ENCOUNTER ANY DESIGN ISSUES DURING CONSTRUCTION. IF THE CONTRACTOR MAKES DESIGN MODIFICATIONS WITHOUT THE WRITTEN DIRECTION OF THE DESIGN ENGINEER, THE CONTRACTOR DOES SO AT HIS OWN RISK.
- ALL NECESSARY PERMITS, TESTING, BONDS AND INSURANCES ETC., SHALL BE PAID FOR BY THE CONTRACTOR. THE OWNER SHALL PAY FOR ALL CITY INSPECTION FEES.
- THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE 811/ONE CALL UTILITY LOCATING CENTER, THE CITY ENGINEER AND/OR THE AUTHORITY HAVING JURISDICTION 3 BUSINESS DAYS PRIOR TO THE BEGINNING OF CONSTRUCTION. IF NO NOTIFICATION IS GIVEN AND DAMAGE RESULTS, SAID DAMAGE WILL BE REPAIRED AT SOLE EXPENSE OF THE CONTRACTOR. IF EXISTING UTILITY LINES ARE ENCOUNTERED THAT CONFLICT IN LOCATION WITH NEW CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER SO THAT THE CONFLICT MAY BE RESOLVED.
- VERY LATEST PLANS AND SPECIFICATIONS AND FURTHERMORE, VERIFY THAT THESE PLANS AND SPECIFICATIONS HAVE BEEN APPROVED. ALL ITEMS CONSTRUCTED BY THE CONTRACTOR PRIOR TO RECEIVING FINAL APPROVAL HAVING TO BE ADJUSTED OR RE-DONE, SHALL BE AT THE CONTRACTORS EXPENSE. SHOULD THE CONTRACTOR ENCOUNTER A CONFLICT BETWEEN THESE PLANS AND/OR SPECIFICATIONS, THEY SHALL SEEK CLARIFICATION II WRITING FROM THE ENGINEER BEFORE COMMENCEMENT OF CONSTRUCTION. FAILURE TO DO SO SHALL BE AT SOLE EXPENSE TO THE CONTRACTOR.
- PERFORMED IN ACCORDANCE WITH THE REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION AND SHALL NOT BEGIN UNTIL ALL NECESSARY PERMITS HAVE BEEN ISSUED FOR THE WORK.
- ALL PROPERTIES OR FACILITIES IN THE SURROUNDING AREAS, PUBLIC OR PRIVATE, DESTROYED OR OTHERWISE DISTURBED DUE TO CONSTRUCTION, SHALL BE REPLACED AND/OR RESTORED TO THE ORIGINAL CONDITION BY
- THE CONTRACTOR SHALL PROVIDE ALL NECESSARY BARRICADING, SIGNAGE LIGHTS AND TRAFFIC CONTROL DEVICES TO PROTECT THE WORK AND SAFELY MAINTAIN TRAFFIC IN ACCORDANCE WITH LOCAL REQUIREMENTS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION). THE DESIGN ENGINEER, OWNER, CITY OF TROY AND STÀTE SHALL NOT B HELD LIABLE FOR ANY CLAIMS RESULTING FROM ACCIDENTS OR DAMAGES CAUSED BY THE CONTRACTOR'S FAILURE TO COMPLY WITH TRAFFIC AND PUBLIC SAFETY REGULATIONS DURING THE CONSTRUCTION PERIOD.
- 10. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST THE TOP OF ALL EXISTING AND PROPOSED STRUCTURES (MANHOLES, CATCH BASINS, INLETS, GATE WELLS ETC.) WITHIN GRADED AND /OR PAVED AREAS TO FINAL GRADE SHOWN ON THE PLANS. ALL SUCH ADJUSTMENTS SHALL BE INCIDENTAL TO THE JOB AND WILL NOT BE PAID FOR SEPARATELY.

IN AREAS WHERE NEW PAVEMENTS ARE BEING CONSTRUCTED, THE TOPSOIL AND SOIL CONTAINING ORGANIC MATTER SHALL BE REMOVED PRIOR TO PAVEMENT CONSTRUCTION.

CONSTRUCTION TRAFFIC IS ANTICIPATED ON THE PAVEMENT STRUCTURE,

- REFER TO ARCHITECTURAL PLANS FOR DETAILS OF FROST SLAB AT EXTERIOR BUILDING DOORS. CONSTRUCTION TRAFFIC SHOULD BE MINIMIZED ON THE NEW PAVEMENT.
- THE INITIAL LIFT THICKNESS COULD BE INCREASED AND PLACEMENT OF THE FINAL LIFT COULD BE DELAYED UNTIL THE MAJORITY OF THE CONSTRUCTION ACTIVITIES HAVE BEEN COMPLETED. THIS ACTION WILL ALLOW REPAIR OF LOCALIZED FAILURE, IF ANY DOES OCCUR, AS WELL AS REDUCE LOAD DAMAGE ON THE PAVEMENT SYSTEM.
- ALL EXPANSION JOINTS AND CONCRETE PAVEMENT JOINTS TO BE SEALED.
- CONCRETE PAVEMENT JOINTING UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION; 5.1. WHERE PROPOSED CONCRETE ABUTS A STRUCTURE, PROVIDE A MINIMUM 1/2" EXPANSION JOINT. THE JOINT FILLER BOARD MUST BE AT LEAST THE FULL DEPTH OF THE CONCRETE AND HELD DOWN A 1/2" TO
- ALLOW FOR SEALING. 5.2. WHERE PROPOSED CONCRETE ABUTS EXISTING CONCRETE OR IN BETWEEN POURS OF PROPOSED CONCRETE (CONSTRUCTION JOINT), PROVIDE 5/8" DOWELS EVERY 30" CENTER TO CENTER HALF WAY ALONG THE THICKNESS OF THE PROPOSED PAVEMENT. ALTERNATE DOWELS SIZES AND SPACING MUST BE APPROVED THE ENGINEER PRIOR TO
- COMMENCING WORK AND VIA THE SUBMITTAL PROCESS. 5.3. WHERE PROPOSED CONCRETE ABUTS EXISTING OR PROPOSED SIDEWALK OR CURBING, PROVIDE A MINIMUM 1/2" EXPANSION JOINT. 5.4. CONTROL, LONGITUDINAL AND/OR TRANSVERSE JOINTS SHALL BE
- PLACED TO PROVIDE PANELS WITHIN THE PAVEMENT AS SQUARE AS POSSIBLE WITH THE FOLLOWING MAXIMUM SPACING PARAMETERS: 5.4.1. 6-INCH THICK CONCRETE PAVEMENT: 12' X 12' 5.4.2. 8-INCH THICK CONCRETE PAVEMENT: 15' X 15'
- 5.5. IRREGULAR-SHAPED PANELS MAY REQUIRE THE USE OF REINFORCING MESH OR FIBER MESH AS DETERMINED BY THE ENGINEER. THE USE OF
- MESH MUST BE APPROVED THE ENGINEER PRIOR TO COMMENCING WORK ND VIA THE SUBMITTAL PROCESS. 5.6. IF A JOINT PLAN IS NOT PROVIDED IN THE PLANS, THE CONTRACTOR SHALL SUBMIT ONE TO THE ENGINEER FOR REVIEW PRIOR TO COMMENCING WORK AND VIA THE SUBMITTAL PROCESS.
- CONCRETE CURBING JOINTING UNLESS SHOWN OTHERWISE IN THE PLANS OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION 6.1. JOINTS WHEN ADJACENT TO ASPHALT PAVEMENT 6.1.1. PLACE CONTRACTION JOINTS AT 10' INTERVALS
- 6.1.2. PLACE 1/2" EXPANSION JOINT AT CATCH BASINS, EXISTING AND PROPOSED SIDEWALK OR EXISTING CURBING. 6.1.3. PLACE 1" EXPANSION JOINT: 6.1.3.1. AT SPRING POINTS OF INTERSECTIONS OR ONE OF THE END OF RADIUS LOCATIONS IN A CURVE 6.1.3.2. AT 400' MAXIMUM INTERVALS ON STRAIGHT RUNS 6.1.3.3. AT THE END OF RADIUS AT OPPOSITE ENDS IN A CURBED
- 6.2. JOINTS WHEN TIED TO CONCRETE PAVEMENT 6.2.1. PLACE CONTRACTION JOINTS OPPOSITE ALL TRANSVERSE
- CONTRACTION JOINTS IN PAVEMENT 6.2.2. PLACE 1/2" EXPANSION JOINT AT CATCH BASINS, EXISTING AND PROPOSED SIDEWALK OR EXISTING CURBING.
- 6.2.3. PLACE 1"EXPANSION JOINT OPPOSITE ALL TRANSVERSE EXPANSION JOINTS IN PAVEMENT 6.2.4. CURB AND GUTTER AND CONCRETE SHALL BE TIED TOGETHER
- SIMILAR TO A LONGITUDINAL LANE TIE JOINT (MDOT B1 JOINT) 6.3. IN BETWEEN POURS OF PROPOSED CONCRETE CURBING (CONSTRUCTION 6.3.1. CARRY THE REBAR CONTINUOUSLY BETWEEN POURS
- 6.3.2. IF THE REBAR IS NOT LONG ENOUGH TO CARRY CONTINUOUSLY, THEN TIE TWO PIECES OF REBAR PER THE LATEST MDOT CONCRETE SIDEWALK JOINTING - UNLESS SHOWN OTHERWISE IN THE PLANS
- OR REQUIRED BY THE AUTHORITY HAVING JURISDICTION PLACE TRANSVERSE CONTRACTION JOINTS EQUAL TO THE WIDTH OF THE WALK WHEN WIDTH IS LESS THAN 8' 7.2. PLACE TRANSVERSE AND LONGITUDINAL CONTRACTION JOINTS EQUAL TO 1/2 THE WIDTH OF THE WALK WHEN WIDTH IS EQUAL TO OR GREATER
- 7.3. PLACE 1" EXPANSION JOINT WHERE ABUTTING SIDEWALK RAMP AND/OR
- RADIUS IN INTERSECTION 7.4. PLACE TRANSVERSE 1/2" EXPANSION JOINT AT MAXIMUM OF 100'
- 7.5. PLACE 1/2" EXPANSION JOINT WHEN ABUTTING A FIXED STRUCTURE, OTHER PAVEMENT (CONCRETE PAVEMENT AND DRIVE APPROACHES).

CUT AT AN ANGLÉ OTHER THAN 90° AT THE CURBLINE

UTILITY STRUCTURES, LIGHT POLE BASES AND COLUMNS. 7.6. WHEN ALONG A CURVE, JOINTS MUST BE PERPENDICULAR TO THE CURVE WITH A MINIMUM LENGTH OF 1 FOOT BEFORE INTERSECTING ANOTHER JOINT(S) IN ANY DIRECTION. NO JOINTS ARE ALLOWED TO BE

### GENERAL GRADING AND EARTHWORK NOTES:

REMOVE ALL THAT ARE NECESSARY TO GRADE SITE.

- THESE NOTES APPLY TO ALL CONSTRUCTION ACTIVITIES ON THIS PROJECT CONTRACTOR SHALL FIELD VERIFY ALL EXISTING TREES AND BRUSH AND
- ALL GRADES ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED. THE STAGING OF CONSTRUCTION ACTIVITIES SHALL OCCUR ONLY WITHIN TH SITE BOUNDARIES. ANY CONSTRUCTION ACTIVITIES OUTSIDE OF THE WORK AREA BOUNDARIES SHALL BE AT THE SOLE RESPONSIBILITY AND RISK OF
- ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES IS SHALL MEET THE REQUIREMENTS OF THE AUTHORIZED PUBLIC AGENCY OF JURISDICTION.
- ALL EARTHWORK AND GRADING OPERATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE PLANS AND SPECIFIACTIONS.
- REFER TO SOIL EROSION CONTROL PLAN FOR ADDITIONAL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES AND NOTES.
- ALL LANDSCAPING IS TO BE COMPLETED BY STALLANTIS. THE CONTRACTOR SHALL NOTE EXISTING UNDERGROUND UTILITIES WITHIN AND ADJACENT TO THE SITE. BACKFILL FOR EXISTING UTILITY TRENCHES
- SHALL BE EXAMINED CRITICALLY. ANY TRENCHES FOUND TO HAVE SOFT JNSTABLE OR UNSUITABLE BACKFILL MATERIAL, IN THE OPINION OF TH HIRD PARTY TESTING COMPANY, THAT ARE TO BE WITHIN THE ZONE INFLUENCE OF PROPOSED BUILDINGS OR PAVEMENT SHALL BE COMPLETELY EXCAVATED AND BACKFILLED WITH SUITABLE MATERIAL.
- ON-SITE FILL CAN BE USED IF THE SPECIFIED COMPACTION REQUIREMENTS CAN BE ACHIEVED. IF ON-SITE SOIL IS USED, IT SHOULD BE CLEAN AND FREE OF FROZEN SOIL, ORGANICS, OR OTHER DELETERIOUS MATERIALS.
- ). THE FINAL SUBGRADE/EXISTING AGGREGATE BASE SHOULD BE THOROUGHLY PROOFROLLED USING A FULLY LOADED TANDEM AXLE TRUCK OR FRONT END LOADER UNDER THE OBSERVATION OF A GEOTECHNICAL/PAVEMENT ENGINEER. LOOSE OR YIELDING AREAS THAT CANNOT BE MECHANICALLY STABILIZED SHOULD BE REINFORCED USING GEOGRIDS OR REMOVED AND REPLACED WITH ENGINEERED FILL OR AS DICTATED BY FIELD CONDITIONS
- THE REMOVAL OF EXISTING SOIL TO GET TO FINAL SUBGRADE ELEVATION SHALL NOT BE CONSIDERED SUBGRADE UNDERCUTTING. IT IS PART OF THE EARTHWORKS TO BALANCE THE SITE AND ESTABLISH THE ELEVATIONS FOR THE PLACEMENT OF THE PROPOSED PAVEMENT ELEVATIONS. THIS SHALL NOT BE PAID FOR SEPARATELY, BUT INCLUDED IN THE EARTHWORKS FOR
- SUBGRADE UNDERCUTTING, INCLUDING BACKFILLING SHALL BE PERFORMED TO REPLACE MATERIALS SUSCEPTIBLE TO FROST HEAVING AND UNSTABLE SOIL CONDITIONS. ANY EXCAVATIONS THAT MAY BE REQUIRED BELOW THE TOPSOIL IN FILL AREAS OR BELOW SUBGRADE IN CUT AREAS WILL BE
- CLASSIFIED AS SUBGRADE UNDERCUTTING. 3. SUBGRADE UNDERCUTTING SHALL BE PERFORMED WHERE NECESSARY AND THE EXCAVATED MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR. ANY SUBGRADE UNDERCUTTING SHALL BE BACKFILLED AS

RECOMMENDED IN THE GEOTECHNICAL ENGINEERING REPORT FOR THE

4. ANY SUB-GRADE WATERING REQUIRED TO ACHIEVE REQUIRED DENSITY SHALL BE CONSIDERED INCIDENTAL TO THE JOB.

### CONSTRUCTION MATERIAL SUBMITTALS

- UNLESS REQUIRED OTHERWISE IN THE PROJECT SPECIFICATIONS, THE CONTRACTOR SHALL ONLY SUBMIT THE FOLLOWING CONSTRUCTION MATERIA SUBMITTALS. AS APPLICABLE TO THE PLANS. FOR REVIEW BY THE ENGINEER. UNLESS APPROVED IN ADVANCE AND IN WRITING BY THE ENGINEER. ANY MATERIAL SUBMITTALS PROVIDED TO THE ENGINEER FOR REVIEW IN ADDITION TO THIS LIST SHALL BE RETURNED TO THE CONTRACTOR WITHOUT A REVIEW BEING
- SOIL EROSION AND SEDIMENTATION CONTROL MEASURES UTILITY TRENCH BACKFILL MATERIAL WITH ALL MATERIAL DATA INCLUDED IN
- THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER
- STORM SEWER STRUCTURES
- STORM SEWER STRUCTURE FRAME AND COVERS INCLUDING CLEAN OUTS PAVEMENT AGGREGATE BASE MATERIAL WITH ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL
- UNLESS APPROVED OTHERWISE BY THE ENGINEER PAVEMENT UNDERDRAIN MATERIAL AND BACKFILL WITH ALL BACKFILL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS
- OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE ENGINEER PAVEMENT MIX DESIGNS SUBMITTED FOR REVIEW BY THE ENGINEER MUST FOLLOW THE CURRENT MOOT REVIEW CHECKLISTS AS SUMMARIZED BELOW AND ALL MATERIAL DATA INCLUDED IN THE SUBMITTAL BEING DATED WITHIN 60 DAYS OF THE SUBMITTAL UNLESS APPROVED OTHERWISE BY THE
- 8.1. CONCRETE MIX DESIGN REVIEW CHECKLIST (FORM 2000) •8.2. SUPERPAVE MIX DESIGN CHECKLIST (FORM 1862) •8.3. MARSHALL MIX DESIGN CHECKLIST (FORM 1849)
- SITE FENCING AND GATES
- ANY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY STATE FOR THE CONTRACTOR TO SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO:
- ANY SPECIALITY ITEMS SHOWN IN THE PLANS OR DETAIL SHEETS THAT SPECIFICALLY DO NOT STATE FOR THE CONTRACTOR SHALL SUBMIT A SHOP DRAWING TO THE ENGINEER FOR REVIEW BUT THE CONTRACTOR REQUESTS TO BE REVIEWED. THE CONTRACTOR'S REQUEST FOR REVIEW MUST BE IN WRITING AND APPROVED BY THE ENGINEER PRIOR TO SUBMITTING THE INFORMATION.

## **GENERAL UTILITY NOTES:**

- ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF TROY. ALL TRENCHES UNDER OR WITHIN THREE (3) FEET OR THE FORTY-FIVE (45) DEGREE ZONE OF INFLUENCE LINE OF EXISTING AND/OR PROPOSED PAVEMENT, BUILDING PAD OR DRIVE APPROACH SHALL BE BACKFILLED WITH SAND COMPACTED TO AT LEAST NINETY-FIVE (95) PERCENT OF MAXIMUM UNIT WEIGHT (ASTM D-1557). ALL OTHER TRENCHES TO BE COMPACTED TO
- WHERE EXISTING MANHOLES OR SEWER PIPE ARE TO BE TAPPED, DRILL HOLES 4" CENTER TO CENTER, AROUND PERIPHERY OF OPENING TO CREATE A PLANE OF WEAKNESS JOINT BEFORE BREAKING SECTION OUT. THE LOCATIONS AND DIMENSIONS SHOWN ON THE PLANS FOR EXISTING UTILITIES ARE IN ACCORDANCE WITH AVAILABLE INFORMATION WITHOUT UNCOVERING AND MEASURING. THE DESIGN ENGINEER DOES NOT GUARANTEE THE ACCURACY OF THIS INFORMATION OR THAT ALL EXISTING
- UNDERGROUND FACILITIES ARE SHOWN. CONTRACTOR SHALL FIELD VERIFY THE CONTRACTOR SHALL COORDINATE TO ENSURE ALL REQUIRED PIPES, CONDUITS, CABLES AND SLEEVES ARE PROPERLY PLACED FOR THE INSTALLATION OF GAS, ELECTRIC, PHONE, CABLE, IRRIGATION, ETC. IN SUCH
- A MANNER THAT WILL FACILITATE THEIR PROPER INSTALLATION PRIOR TO THE PLACEMENT OF THE PROPOSED PAVEMENT AND LANDSCAPING. PIPE LENGTHS INDICATED ARE FROM CENTER OF STRUCTURE AND TO END
- OF SECTION UNLESS NOTED OTHERWISE. CONTRACTOR SHALL INSPECT ALL EXISTING PUBLIC STORM SEWER, SANITARY SEWER AND WATER MAIN STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION AND WITH THE GOVERNING AGENCY INSPECTOR PRIOR TO ESTABLISHING FINAL GRADE. NOTIFY THE ENGINEER, OWNER/DEVELOPER, AND GOVERNING AGENCY IF STRUCTURE IS DEEMED TO BE STRUCTURALLY UNSOUND AND/OR IN NEED OF REPAIR.
- STORM SEWER NOTES:
- ALL STORM SEWER LEADS SHALL BE CONSTRUCTED AT 1.00% MINIMUM
- ALL STORM SEWER 10" OR LESS AND/OR LEADS SHALL BE SDR 26. JOINTS FOR P.V.C. PIPE SHALL BE ELASTOMERIC (RUBBER GASKET) AS SPECIFIED IN A.S.T.M. DESIGNATION D-3212.

### | GENERAL BARRIER FREE NOTES:

- THE FOLLOWING NOTES PROVIDE AN OUTLINE OF SOME OF THE REQUIREMENTS CONTAINED WITHIN THE "STANDARDS FOR ACCESSIBLE DESIGN — AMERICANS WITH DISABILITIES ACT 2010", AND "ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES", ICC/ANSI A117.1-2009. THE CONTRACTOR IS RESPONSIBLE FOR ALL OF THE REQUIREMENTS PRESENTED WITHIN THESE DOCUMENTS, WHICH ARE AVAILABLE IN FULL UPON REQUEST.
- AN ACCESSIBLE ROUTE CONSISTS OF WALK SURFACES, CURB RAMPS AND RAMPS. AT LEAST ONE ACCESSIBLE ROUTE SHALL BE PROVIDED WITHIN THE SITE FROM ACCESSIBLE PARKING SPACES, ACCESSIBLE PASSENGER LOADING ZONES, PUBLIC STREETS AND SIDEWALKS, AND PUBLIC TRANSPORTATION STOPS TO THE BUILDING OR FACILITY ENTRANCE THEY SERVE. THE RUNNING SLOPE OF ALL WALKING SURFACES SHALL NOT EXCEED 5% (1:20) AND THE CROSS-SLOPE SHALL NOT EXCEED 2% (1:48). WALKING SURFACES MUST BE LEVEL WITH PERMITTED VERTICAL CHANGES IN

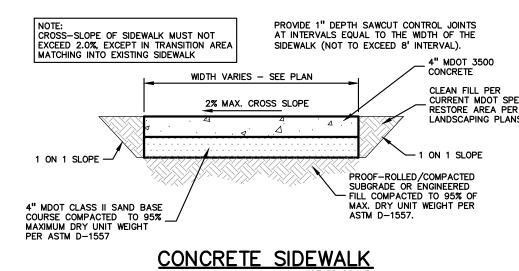
LEVEL NOT TO EXCEED 1/4", OR BEVELED CHANGES IN LEVEL NOT TO

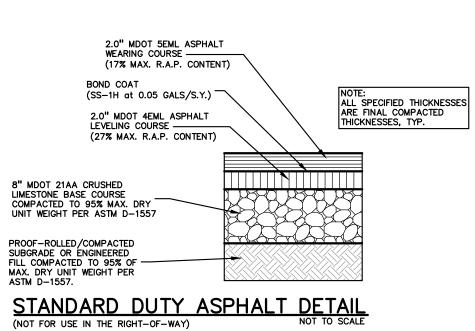
- EXCEED 1/2". REFER TO DETAIL DET-8 THIS SHEET. ANY CHANGE IN LEVEL GREATER THAN 1/2" MUST BE RAMPED. TURNING SPACES ALONG ACCESSIBLE ROUTES MUST BE AT LEAST 5 FEET WIDE IN ALL DIRECTIONS AND NOT EXCEED 2% SLOPE (1:48) IN ANY
- ACCESSIBLE ROUTES WILL BE DESIGNED TO BE A MINIMUM OF 5 FEET WIDE. THE MINIMUM CLEAR WIDTH IS 3 FEET. RAMPS ALONG ACCESSIBLE ROUTES WILL HAVE A RUNNING SLOPE GREATER THAN 5% (1:20) AND LESS THAN 8.3% (1:12). THE CROSS-SLOPE OF RAMP RUNS SHALL NOT EXCEED 2% (1:48)
- THE MINIMUM CLEAR WIDTH OF ANY RAMP IS 36 INCHES. THE MAXIMUM RISE FOR ANY RAMP (NOT INCLUDING CURB RAMPS) SHALI NOT EXCEED 30 INCHES. LANDINGS ARE REQUIRED AT THE TOP AND BOTTOM OF EACH RAMP, LANDINGS SHALL HAVE A CROSS-SLOPE NOT EXCEEDING 2% (1:48). SHALL BE 5 FEET LONG AND AT LEAST AS WIDE AS THE RAMP CLEAR WIDTH. IF THERE IS A CHANGE OF DIRECTION AT A
- LANDING, THEN THE LANDING MUST BE AT LEAST 5 FEET WIDE AND 5 FEET D. CURB RAMPS ALONG ACCESSIBLE ROUTES SHALL NOT RISE MORE THAN 6 INCHES, NOR BE STEEPER THAN 8.3% (1:12). APPROACHING SLOPES TO THE RAMP CANNOT EXCEED 5%, WHICH INCLUDES SIDEWALKS, PAVEMENT,
- IF CURB RAMP SIDES ARE FLARED, THE FLARES SHALL NOT BE STEEPER 12. LANDINGS ARE REQUIRED AT THE TOP OF ALL CURB RAMPS. THE CLEAR
- LENGTH OF THE LANDING SHALL BE A MINIMUM OF 36" AND WILL BE AS WIDE AS THE CURB RAMP.

  3. CURB RAMPS SHALL BE LOCATED OR PROTECTED TO PREVENT THEIR OBSTRUCTION BY PARKED VEHICLES.
- 14. HANDRAILS ARE NOT REQUIRED ON CURB RAMPS. 15. WHERE DETECTABLE WARNING IS REQUIRED AT CURB RAMPS, THE DETECTABLE WARNING SHALL BE 24" MINIMUM IN DEPTH AND SHALL EXTEND THE FULL WIDTH OF THE RAMP. THE DETECTABLE WARNING SHALL BE LOCATED SO THE EDGE NEAREST THE CURB IS 6 INCHES MINIMUM AND B INCHES MAXIMUM FROM THE CURB LINE.
- 16. ACCESSIBLE PARKING SPACES ON SITE SHALL BE PROVIDED AS REQUIRED IN SECTION 502 OF THE A.D.A. IF THE SITE HAS MORE THAN ONE PARKING FACILITY, EACH FACILITY IS REQUIRED TO MEET THESE REQUIREMENTS SEPARATELY. THE REQUIRED NUMBER OF SPACES SHALL BE BASED ON THE TOTAL NUMBER OF PARKING SPACES IN EACH PARKING FACILITY ON SITE. . FOR EVERY SIX OR FRACTION OF SIX ACCESSIBLE PARKING SPACES, ONE VAN ACCESSIBLE SPACE SHALL BE PROVIDED.
- B. ACCESSIBLE PARKING SPACES SHALL BE LOCATED ON THE SHORTES' ACCESSIBLE ROUTE FROM PARKING TO A BUILDING ENTRANCE. IF THERE IS MORE THAN ONE ACCESSIBLE ENTRANCE. PARKING SHALL BE DISPERSED ALONG THE SHORTEST ACCESSIBLE ROUTE TO THE ACCESSIBLE ENTRANCES. . BARRIER FREE CAR PARKING SPACES SHALL BE A MINIMUM OF 8 FEET WIDE WITH AN ACCESS AISLE 5 FEET WIDE MINIMUM. VAN ACCESSIBLE PARKING SPACES SHALL BE AT LEAST 11 FEET WIDE WITH A 5' WIDE ACCESS AISLE. VAN ACCESSIBLE SPACES ARE ALSO ACCEPTABLE WITH AN 8 FOOT WIDTH AND 8 FOOT WIDE ACCESS AISLE. THE ACCESS AISLE IN ALL CASES MUST EXTEND THE FULL LENGTH OF THE PARKING SPACE.

O. SURFACE SLOPES WITHIN THE PARKING SPACES AND AISLES SHALL NOT

EXCEED 2% (1:48) 1. ACCESSIBLE AREAS INCLUDING PARKING SPACES, AISLES AND PATHWAYS, REQUIRE A MINIMUM VERTICAL CLEARANCE OF 98 INCHES. 22. ACCESSIBLE PARKING SPACES ARE REQUIRED TO BE IDENTIFIED BY SIGNS. THE SIGNS SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY. VAN PARKING SPACES ARE REQUIRED TO BE DESIGNATED AS "VAN ACCESSIBLE". REFER TO DETAILS ON THIS SHEET.





WEDGE WITH TEMPORARY
ASPHALT MIX AFTER MILLING.
REMOVE WEDGE BEFORE
OVERLAY OCCURS.

BUTT JOINT DETAIL

3.0" O.D. CORNER POST -

2.5" O.D. LINE POST -

TE BASE NOTE:  "MENT SECTION DESIGN ASSUMES THE  "BASE MATERIAL THAT MEETS THE  TION SECTION 902 FOR AGGREGATES  "PROPOSED IN LIEU OF THE SPECIFIED  WILL REQUIRE A MINIMUM 25% INCRE-  DOCUMENTATION IS PROVIDED TO PE-  CONCRETE MATERIAL MEETS ALL RE  902, THEN THE 25% INCREASE IN THE	REQUIREMENTS OF MDOT S. IF CRUSHED CONCRETE O CRUSHED LIMESTONE M ASE IN BASE THICKNESS. A GROUP THAT SHOWS QUIREMENTS OF MDOT SI	STANDARD AGGREGATE ATERIAL, PE HOWEVER, THAT THE PECIFICATION
MATERIAL NOTES: ASPHALT MIXTURES UTILIZING RECYC DIT SPECIAL PROVISION 12SP501(E). T IF ASPHALT MIXES CONTAINING RAF THE ASPHALT BINDER MUST BE REV ENTS (RAP CONTENT UP TO 27% MA BLE ON THIS PROJECT. AN ASPHALT IE FORWARDED TO PEA GROUP FOR	THE BINDER GRADE FOR P ARE TO BE SUPPLIED I VISED PER MDOT 'TIER 1' IXIMUM). TIER 3 MIXES A MIX DESIGN FOR ALL SP	THIS WORK I FOR THIS OR 'TIER 2' RE NOT ECIFIED MIXE
E BASE MATERIAL THAT MEETS THE TION SECTION 902 FOR AGGREGATES PROPOSED IN LIEU OF THE SPECIFIED WILL REQUIRE A MINIMUM 25% INCRE- DOCUMENTATION IS PROVIDED TO PE- CONCRETE MATERIAL MEETS ALL RE 2002, THEN THE 25% INCREASE IN TH  MATERIAL NOTES: ASPHALT MIXTURES UTILIZING RECYC OT SPECIAL PROVISION 12SP501(E). T IF ASPHALT MIXES CONTAINING RAF THE ASPHALT BINDER MUST BE REV ENTS (RAP CONTENT UP TO 27% MA BILE ON THIS PROJECT. AN ASPHALT	REQUIREMENTS OF MDOTS. IF CRUSHED CONCRETE O CRUSHED LIMESTONE MASE IN BASE THICKNESS. A GROUP THAT SHOWS QUIREMENTS OF MDOT SI IICKNESS MAY BE REEVA  CLED ASPHALT PAVEMENT THE BINDER GRADE FOR P ARE TO BE SUPPLIED IN INSTITUTE OF MIXES A MIX DESIGN FOR ALL SF	STANDAR AGGREGA ATERIAL, FI HOWEVER THAT THE PECIFICATIO LUATED.  (RAP) MI THIS WORK FOR THIS OR TIER RE NOT ECIFIED MI

- 1 5/8" O.D. TOP RAIL

NOTE: FENCE POST TO BE SCHEDULE 40 PIPE WEIGHT.

1 5/8" O.D. BOTTOM RAIL —

4 FT HIGH CHAIN LINK FENCE DETAIL

MEET EXISTING PAVEMENT -

VERTICAL FACE -

		ASPHALT MIX DE	ESIGN CHART	
COMMERCIAL ADT 0-300	COMMERCIAL ADT 301-1000	COMMERCIAL ADT 1001-3400	COMMERCIAL ADT ≥3401	APPLICATION RATE (LB/YD²), MINIMUM — MAXIMUM
4EL	4EML	4EMH	4EMH	220-275
5EL	5EML	5EMH	SMA OR 5EMH	165-220

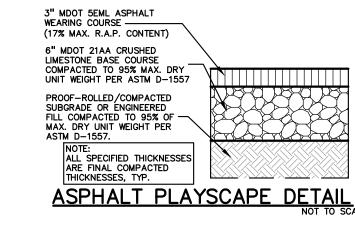
SECTION. REFER TO

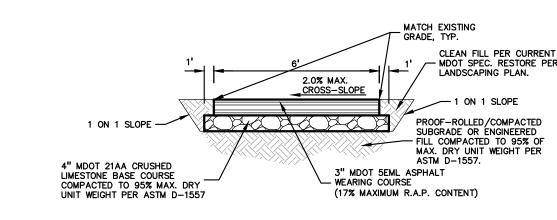
CONCRETE FOOTING

INVESTIGATION OR THE ARCHITECTURAL PLAN

- PLACE ON NATURAL SOILS OF AT LEAST

1500 PSF NET ALLOWABLE BEARING CAPACITY OR DOCUMENTED ENGINEERED FILL





ASPHALT PATHWAY DETAIL AGGREGATE BASE NOTE:
THIS PAVEMENT SECTION DESIGN ASSUMES THE USE OF MDOT 21AA CRUSHED LIMESTONE BASE MATERIAL THAT MEETS THE REQUIREMENTS OF MDOT STANDARD SPECIFICATION SECTION 902 FOR AGGREGATES. IF CRUSHED CONCRETE AGGREGATE BASE IS PROPOSED IN LIEU OF THE SPECIFIED CRUSHED LIMESTONE MATERIAL, PEA GROUP WILL REQUIRE A MINIMUM 25% INCREASE IN BASE THICKNESS. HOWEVER, IF TESTING DOCUMENTATION IS PROVIDED TO PEA GROUP THAT SHOWS THAT THE CRUSHED CONCRETE MATERIAL MEETS ALL REQUIREMENTS OF MDOT SPECIFICATION SECTION 902, THEN THE 25% INCREASE IN THICKNESS MAY BE REEVALUATED. HOT-MIX ASPHALT MIXTURES UTILIZING RECYCLED ASPHALT PAVEMENT (RAP) MUST MEET MOOT SPECIAL PROVISION 12SP501(E). THE BINDER GRADE FOR THIS WORK IS PG58-22. IF ASPHALT MIXES CONTAINING RAP ARE TO BE SUPPLIED FOR THIS PROJECT, THE ASPHALT BINDER MUST BE REVISED PER MDOT 'TIER 1' OR 'TIER 2' REQUIREMENTS (RAP CONTENT UP TO 27% MAXIMUM). TIER 3 MIXES ARE NOT ACCEPTABLE ON THIS PROJECT. AN ASPHALT MIX DESIGN FOR ALL SPECIFIED MIXES SHOULD BE FORWARDED TO PEA GROUP FOR REVIEW PRIOR TO CONSTRUCTION

IN LOCATIONS WHERE THE PROPOSED ASPHALT PATHWAY MATCHES THE EXISTING PATHWAY, IF THE EXISTING BASE MATERIAL IS ADEQUATE IN BOTH DEPTH AND GRADATION, IT CAN BE REUSED. IF EITHER OF THESE IS INADEQUATE, THE BASE MATERIAL SHOULD BE REMOVED AND REPLACED TO THE SPECIFIED REQUIREMENT.



TMP ARCHITECTURE INC 1191 WEST SQUARE LAKE ROAD BLOOMFIELD HILLS · MICHIGAN · 48302 PH · 248.338.4561 FX · 248.338.0223 EM · INFO @ TMP-ARCHITECTURE.COM

**REGISTRATION SEAL** 

CONSULTANT



PROJECT TITLE

## Leonard Elementary School 4401 TALLLAM DRIVE

Playground Remodel Bid Package No.01B

**Troy School District** Troy, Michigan

DRAWING TITLE **Notes & Details** 

**ISSUE DATES** 

10-03-2024 CONSTRUCTION DOCUMENTS

08-21-2024 INTERNAL COORDINATION

DESIGN DEVELOPMENT **ISSUED FOR:** DRAWN

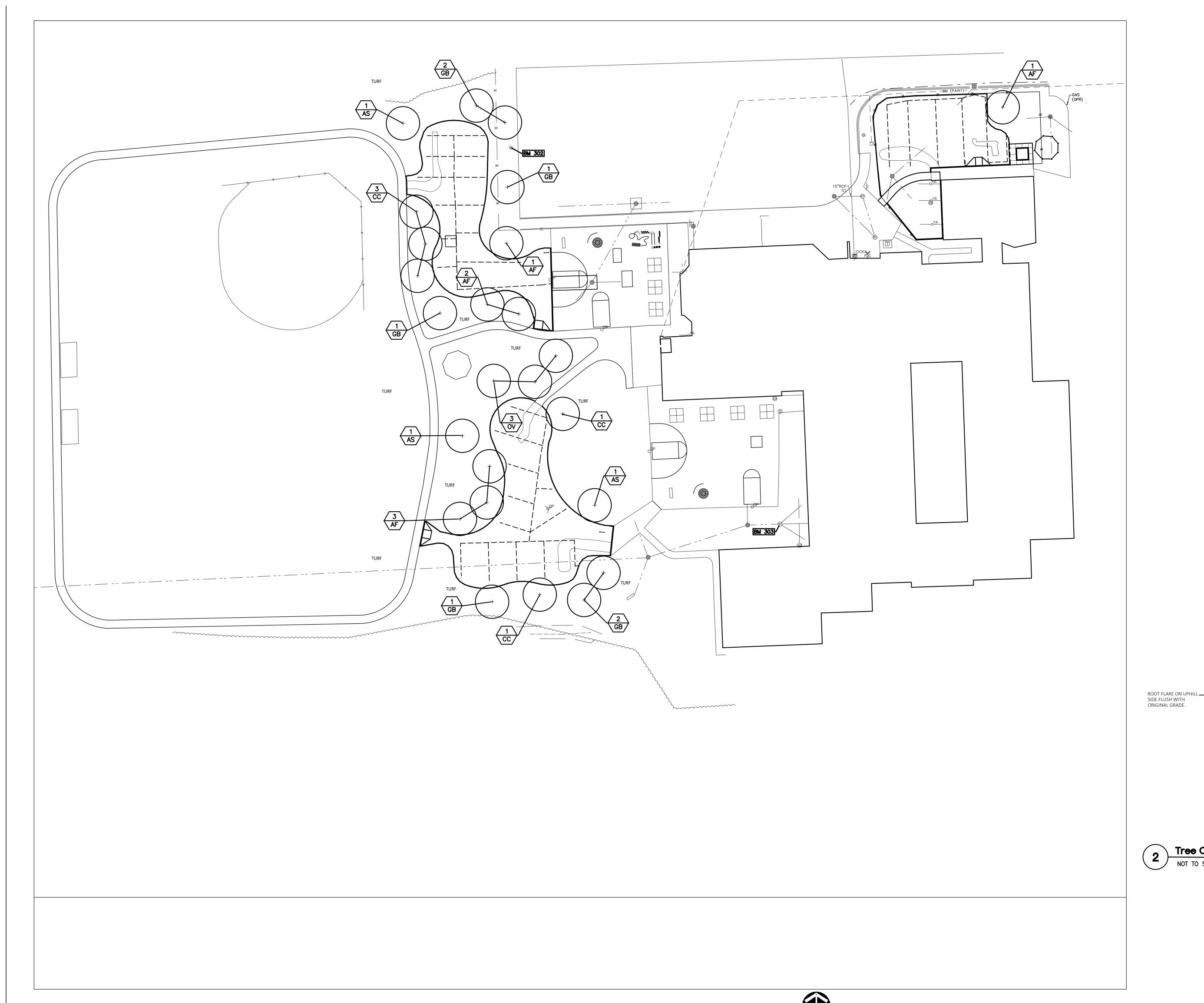
CHECKED JW APPROVED TD

PROJECT NO.

DRAWING NO.

22091B

**CE-3.4.0** 



Site Landscape Plan

## LANDSCAPE NOTES:

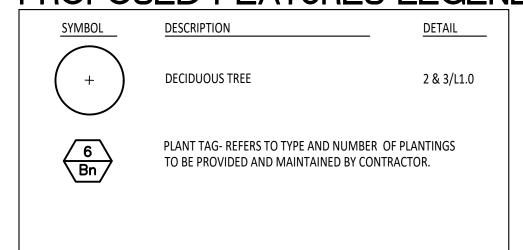
- 1. SURVEY OF EXISTING CONDITIONS PROVIDED BY PEA GROUP, 1849 POND RUN, AUBURN HILLS, MICHIGAN, 48326, (248)689-9090.
- 2. CALL "MISS DIG" AND VERIFY ALL UNDERGROUND UTILITIES PRIOR TO BEGINNING WORK. 72 HOURS BEFORE YOU DIG CALL "MISS DIG" AT 1-800-482-7171. ANY UTILITIES DISTURBED BY CONSTRUCTION SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- 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
- PLACE SHREDDED HARDWOOD MULCH TO A 3" DEPTH IN ALL TREE & SHRUB BEDS & TO A 2" DEPTH IN ALL
- GROUND COVER BEDS.

  UNLESS OTHERWISE NOTED, TOPSOIL, FINE GRADE AND SEED ALL DISTURBED AREAS WITHIN THE SEEDING
- REPAIR AND RESTORE ANY DAMAGE OUTSIDE OF LIMIT OF WORK LINE TO ORIGINAL CONDITION.
- 3. PROTECT ALL TREES AND EXISTING FEATURES TO REMAIN AS SPECIFIED.

LIMIT SHOWN AND AREAS DISTURBED BY CONSTRUCTION.

- 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.
- 1. 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.

## PROPOSED FEATURES LEGEND:





REMOVE BURLAP FROM TOP 1/3 OF BALL & ALL TWINE OR ROPE

--- ROUND TOPPED SOIL BERM 4" HIGH

x 8" WIDE ABOVE ROOT BALL

NO MORE THAN 1" MULCH ON TOP OF ROOT BALL.

CENTERED ON DOWNHILL SIDE.

PLANTING SOIL MIX, TREAT WITH MYCHORRIZAL

ORIGINAL BERM

Troy School District Troy, Michigan

TMP ARCHITECTURE INC

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**REGISTRATION SEAL** 

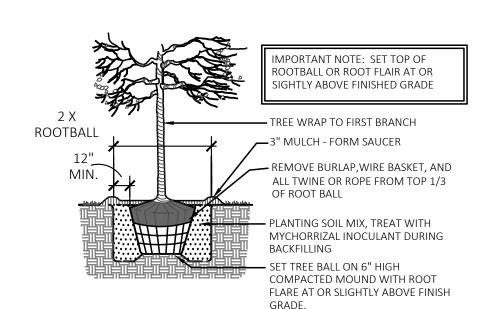
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Site Landscape Plan

2 Tree On Berm Detail 1/4 Slope or Greater

NOT TO SCALE

SET TREE BALL ON UNDISTURBED SUBGRADE

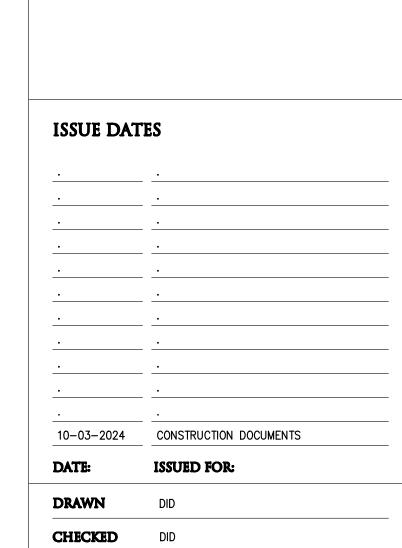


Tree Planting Detail

NOT TO SCALE

## PLANT LIST:

	SYM.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	SPACING	STATUS	
TREES	AF	Acer x freemanii 'Marmo'	Marmo Freeman Maple	2" CAL.	B&B	PER PLANS	NATIVAR	
	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 Gingko Tree (no female)	2" CAL.	B&B	PER PLANS	NON-NATIVE	
	OV	Ostrya virginiana	Hophornbeam	2" CAL.	B&B	PER PLANS	NATIVE	



PROJECT NO.

**APPROVED** DID

22091B

DRAWING NO.
L1.0