



SITE DEMOLITION NOTES:

- A. CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
- B. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY DEMOLITION PERMITS AND COORDINATE ALL DEMOLITION WITH THE MUNICIPALITY AND OWNERS REPRESENTATIVE TO ENSURE PROTECTION AND MAINTENANCE OF SANITARY AND WATER UTILITIES AS NECESSARY AND TO PROVIDE STORM WATER CONVEYANCE UNTIL NEW FACILITIES ARE CONSTRUCTED, TESTED, AND PLACED IN OPERATION.
- C. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A DAILY PROGRAM OF DUST CONTROL PROCEDURES PRIOR TO DEMOLITION OF ANY STRUCTURES. MODIFICATION OF DUST CONTROL PROCEDURES SHALL BE PERFORMED BY THE CONTRACTOR TO THE SATISFACTION OF THE MUNICIPALITY AND COMPLY WITH THE NPDES II REQUIREMENTS OF THE ILLINOIS ENVIRONMENTAL PROTECTION AGENCY AND THE INDIVIDUAL STORM WATER POLLUTION PREVENTION PLAN FOR THIS PROJECT.
- D. ALL EXISTING TREES, BRUSH AND MISCELLANEOUS VEGETATION TO BE REMOVED OR DEMOLISHED SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
- E. VOIDS LEFT BY ANY ITEM REMOVED UNDER ANY PROPOSED BUILDING, PAVEMENT, OR WALK OR WITHIN 24" THEREOF SHALL BE BACKFILLED WITH ENGINEERED FILL ACCORDING TO THE GEOTECHNICAL REPORT.
- F. ALL EXISTING BUILDINGS, FOUNDATIONS, CONCRETE OR ASPHALT PAVEMENT OR WALKS, CURB AND GUTTER AND MISCELLANEOUS STRUCTURES (INCLUDING, BUT NOT LIMITED TO FENCES, POLES, YARD LIGHTS, ELECTRICAL PANELS, AND MISCELLANEOUS DEBRIS) INDICATED TO BE DEMOLISHED SHALL BE REMOVED OR DEMOLISHED AND REMOVED FROM THE SITE AND DISPOSED OF LEGALLY BY THE CONTRACTOR.
- G. CONTACT GAS COMPANY PRIOR TO DEMOLITION. LOCATION OF EXISTING GAS SERVICES ARE UNKNOWN.
- H. ALL EXISTING TREES SHALL REMAIN UNLESS OTHERWISE NOTED.
- I. ALL EXISTING UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.
- J. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS.
- K. CONTRACTOR SHALL PROVIDE REMOVAL AND REPLACEMENT AND SHORING AS NECESSARY TO MEET OSHA AND LOCAL CODE, AS WELL AS MANUFACTURER'S REQUIREMENTS.
- L. ALL FOUNDATIONS FOR ALL FENCES, SIGNS, ETC. NOTED FOR REMOVAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFFSITE.
- M. PROOF-ROLLING SHALL BE PERFORMED FOR ALL SUBGRADE PRIOR TO CONSTRUCTION OF NEW PAVEMENT. ALL SUBGRADE PROOF-ROLLING SHALL BE WITNESSED AND APPROVED BY A MATERIALS TESTING AGENCY TO BE HIRED BY THE OWNER. CONTRACTOR TO COORDINATE ALL PROOF-ROLLING WITH THE MATERIALS TESTING AGENCY. CONTACT THE ENGINEER AND MATERIAL TESTING AGENCY SO THAT THEY MAY WITNESS THE PROOF ROLL. PROOF ROLL SHALL BE PROVIDED FOR ALL PAVEMENT AREAS SPECIFIED FOR FULL DEPTH REMOVAL AND REPLACEMENT.
- N. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHICAL SURVEY LAST DATED 06-25-2025, PREPARED BY TORRENZA SURVEYING, LLC. CONTRACTOR SHALL FIELD VERIFY EXISTING ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.
- O. SEE SHEETS 3 OF 3 TOPOGRAPHICAL SURVEY FOR ALL EXISTING LOCATED UTILITY DATA.
- P. CLEAR SITE AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
- Q. ALL ITEMS MARK "EXISTING OR EXISTING TO REMAIN" TO BE PROTECTED FROM DAMAGE FOR THE DURATION OF CONSTRUCTION.
- R. EXISTING PAVEMENT AGGREGATE BASE COURSE SHALL NOT BE RE-USED AS AGGREGATE BASE COURSE FOR THE NEW PAVEMENT SECTION.

PROJECT NOTES:

- 1. EXISTING ASPHALT PATH TO REMAIN.
- 2. NEW FULL DEPTH SAWCUT TO PROVIDE CLEAN CONSTRUCTION BREAK.
- 3. EXISTING ASPHALT PAVEMENT TO BE REMOVED FULL DEPTH TO MEET THE BOTTOM OF THE NEW PAVEMENT CROSS SECTION (NEW SUBGRADE ELEVATION). SEE THE SITE GRADING PLAN FOR NEW FINISHED ELEVATIONS AND DETAIL SHEETS FOR NEW PAVEMENT CROSS SECTIONS.
- 4. EXISTING AREA LIGHT TO BE REMOVED.
- 5. EXISTING TREE TO BE REMOVED.
- 6. EXISTING GAZEBO TO BE REMOVED.
- 7. EXISTING CONCRETE PAVEMENT TO BE REMOVED FULL DEPTH TO MEET THE BOTTOM OF THE NEW PAVEMENT CROSS SECTIONS (NEW SUBGRADE ELEVATION). SEE THE SITE GRADING PLAN FOR NEW FINISHED ELEVATIONS AND DETAIL SHEETS FOR NEW PAVEMENT CROSS SECTIONS.
- 8. EXISTING ELECTRIC TRANSFORMER TO BE REMOVED.
- 9. EXISTING ELECTRIC PEDESTAL TO BE REMOVED.
- 10. EXISTING UNDERGROUND ELECTRIC LINE TO BE REMOVED.
- 11. EXISTING AREA LIGHT TO REMAIN.
- 12. EXISTING TREE TO REMAIN.
- 13. EXISTING STORM SEWER TO BE REMOVED.
- 14. EXISTING STORM STRUCTURE TO REMAIN.
- 15. EXISTING STORM SEWER TO REMAIN.
- 16. EXISTING CURB AND GUTTER TO BE REMOVED.
- 17. NEW 2' WIDE BUTT JOINT.
- 18. EXISTING SIGN TO REMAIN.
- 19. EXISTING ASPHALT PAVEMENT TO REMAIN.
- 20. EXISTING CURB AND GUTTER TO REMAIN.

DEMOLITION LEGEND

- EXISTING STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING WATER MAIN
- EXISTING GAS SERVICE
- EXISTING UNDERGROUND ELECTRIC SERVICE
- EXISTING UNDERGROUND TELCO SERVICE
- EXISTING OVERHEAD LINES
- EXISTING CATCH BASIN / INLET
- EXISTING BEEHIVE CATCH BASIN
- EXISTING MANHOLE
- EXISTING CONCRETE PAVEMENT TO BE REMOVED FULL DEPTH
- EXISTING ASPHALT PAVEMENT TO BE REMOVED FULL DEPTH



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CONTRACTOR MUST LOCATE PRIVATE UTILITIES IN AREA OF CONSTRUCTION PRIOR TO PROCEEDING WITH WORK

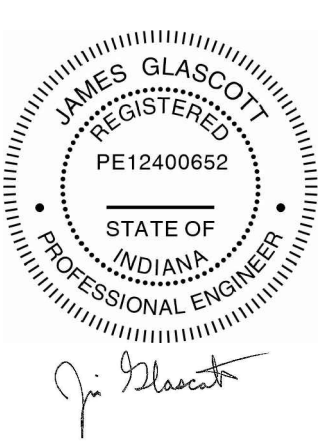


1" = 20'

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WT GROUP JOB NUMBER - C2400072

WT Group logo and contact information: 2015 Pleasant Street, Hartford, CT 06102, P: 204.205.8331, F: 204.205.8444, www.wtgroup.com



Project information: SCHOOL TOWN OF MUNSTER, 2025 NEW TENNIS FACILITY, MUNSTER HIGH SCHOOL, 8823 COLUMBIA AVE. MUNSTER, IN 46321. Includes date (AUGUST 12, 2025), sheet title (SITE DEMOLITION PLAN), and sheet number (C-1.0).

1. CONTRACTOR SHALL PERFORM ALL DEMOLITION WORK IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL REQUIREMENTS.
2. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND COORDINATE ALL DEMOLITION WITH THE MUNICIPALITY AND OWNERS REPRESENTATIVE TO ENSURE PROTECTION AND MAINTENANCE OF SANITARY AND WATER UTILITIES AS WELL AS GAS AND SEWER LINES, STORM DRAINAGE, ETC. UNTIL NEW FACILITIES ARE CONSTRUCTED, TESTED, AND PLACED IN OPERATION.
3. CONTRACTOR SHALL DEVELOP AND IMPLEMENT A DAILY PROGRAM OF DUST CONTROL MEASURES TO PREVENT EXCESSIVE DUST DURING DEMOLITION. DUST CONTROL PROCEDURES SHALL BE PERFORMED BY THE CONTRACTOR TO THE SATISFACTION OF THE MUNICIPALITY AND COMPLY WITH THE NPDES II REQUIREMENTS OF THE STATE ENVIRONMENTAL PROTECTION AGENCY. THE PROJECT AND 24-HOUR POLLUTION PREVENTION PLAN FOR THIS PROJECT.
4. ALL EXISTING TREES, BRUSH AND MISCELLANEOUS VEGETATION TO BE REMOVED OR LEGALLY DISPOSED FROM THE SITE AND LEGALLY DISPOSED OF BY THE CONTRACTOR.
5. VEGETATION NOT ANY ITEM REMOVED UNDER ANY PROPOSED BUILDINGS, PAVEMENT, OR WALK OR WITHIN 24' THEREOF SHALL BE BACKFILLED WITH ENGINEERED FILL ACCORDING TO THE GEOTECHNICAL REPORT.
6. EXISTING BUILDINGS, DRIVEWAYS, DRIVEWAYS, CONCRETE OR ASPHALT PAVEMENT OR WALKS, CURBS AND GUTTER AND MISCELLANEOUS STRUCTURES (INCLUDING, BUT NOT LIMITED TO FENCES, POLES, YARD LIGHTS, ELECTRICAL PANELS, AND MISCELLANEOUS DEBRIS) TO BE REMOVED SHALL BE REMOVED AND LEGALLY DISPOSED AND REMOVED FROM THE SITE AND DISPOSED OF LEGALLY BY THE CONTRACTOR.
7. CONTACT GAS COMPANY PRIOR TO DEMOLITION. LOCATION OF EXISTING GAS SERVICES AND WORK.
8. ALL EXISTING TREES SHALL REMAIN UNLESS OTHERWISE NOTED.
9. 1. ALL EXISTING UTILITIES SHALL REMAIN UNLESS OTHERWISE NOTED.
10. 2. CONTRACTOR SHALL NOTIFY PRIVATE OR PUBLIC UTILITY UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS.
11. 3. CONTRACTOR SHALL PROVIDE PROTECTIVE MEASURES TO BE TESTED AS NECESSARY TO MEET OSHA AND LOCAL CODE, AS WELL AS MANUFACTURER'S REQUIREMENTS.
12. 4. NOTIFICATIONS FOR ALL FENCES, SIGNS, ETC. NOTED FOR REMOVAL SHALL BE REMOVED AND LEGALLY DISPOSED OF OFFSITE.
13. 5. PROOF-ROLLING SHALL BE PERFORMED FOR ALL SEGREGATED PRIOR TO CONSTRUCTION TO DETERMINE SUBGRADE FOR CONSTRUCTION SHALL BE WITNESSED AND APPROVED BY A MATERIALS TESTING AGENCY TO BE HIRED BY THE OWNER.
14. 6. CONTRACTOR TO COORDINATE ALL PROOF-ROLLING WITH THE MATERIALS TESTING AGENCY. CONTRACTOR SHALL BE RESPONSIBLE FOR THE TESTING. THE TESTER MAY WITNESS THE PROOF ROLL. PROOF ROLL SHALL BE PROVIDED FOR ALL PAVEMENT AND SPECIFICALLY FOR FILL DEPTH AND DENSITY.
15. 7. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHICAL SURVEY LAST DATED 06-25-2025, PREPARED BY TORRENZA ENGINEERING, LLC. CONTRACTOR SHALL VERIFY ALL CONDITIONS SHOWN AND AS NOTED CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY DISCREPANCY.
16. 8. USE SHEET 3 OF 3 TOPOGRAPHICAL SURVEY FOR ALL EXISTING LOCATED UTILITY DATA.
17. 9. CONSIDER SITE AS NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS.
18. 10. ALL ITEMS MARK "EXISTING OR EXISTING TO REMAIN" TO BE PROTECTED FROM DAMAGE FOR THE DURATION OF CONSTRUCTION.
19. 11. PAVEMENT OR AGGREGATE BASE COURSE SHALL NOT BE RE-USED AS AGGREGATE BASE COURSE FOR THE NEW PAVEMENT SECTION.

1. EXISTING ASPHALT PATH TO REMAIN.
2. NEW FULL DEPTH SANCTU TO PROVIDE CLEAN CONSTRUCTION BREAK.
3. EXISTING ASPHALT PAVEMENT TO BE REMOVED FULL DEPTH TO MEET THE BOTTOM OF THE NEW PAVEMENT CROSS SECTIONS (NEW SUBGRADE ELEVATION). SEE THE SITE GRADING PLAN FOR NEW FINISHED ELEVATIONS AND DETAIL SHEETS FOR NEW PAVEMENT CROSS SECTIONS.
4. EXISTING AREA LIGHT TO BE REMOVED.
5. EXISTING TREE TO BE REMOVED.
6. EXISTING GAZEBO TO BE REMOVED.
7. EXISTING CONCRETE PAVEMENT TO BE REMOVED FULL DEPTH TO MEET THE BOTTOM OF THE NEW PAVEMENT CROSS SECTIONS (NEW SUBGRADE ELEVATION). SEE THE SITE GRADING PLAN FOR NEW FINISHED ELEVATIONS AND DETAIL SHEETS FOR NEW PAVEMENT CROSS SECTIONS.
8. EXISTING ELECTRIC TRANSFORMER TO BE REMOVED.
9. EXISTING ELECTRIC PEDESTAL TO BE REMOVED.
10. EXISTING UNDERGROUND ELECTRIC LINE TO BE REMOVED.
11. EXISTING AREA LIGHT TO REMAIN.
12. EXISTING TREE TO REMAIN.
13. EXISTING STORM SEWER TO BE REMOVED.
14. EXISTING STORM STRUCTURE TO REMAIN.
15. EXISTING STORM SEWER TO REMAIN.
16. EXISTING CURB AND GUTTER TO BE REMOVED.
17. NEW 2' WIDE BUILT JOINT.
18. EXISTING SIGN TO REMAIN.
19. EXISTING ASPHALT PAVEMENT TO REMAIN.
20. EXISTING CURB AND GUTTER TO REMAIN

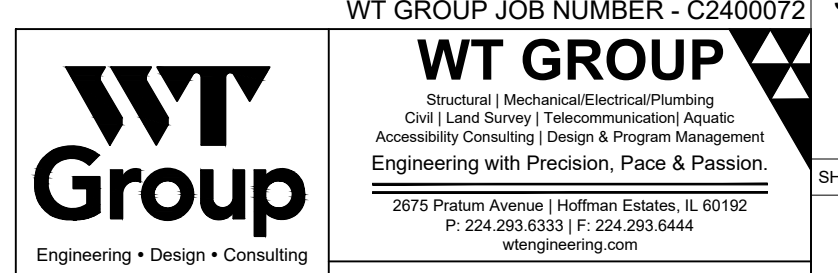
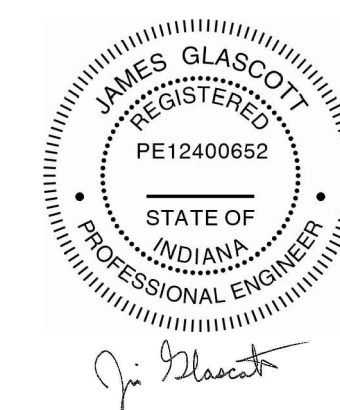
	EXISTING STORM SEWER
	EXISTING SANITARY SEWER
	EXISTING WATER MAIN
	EXISTING GAS SERVICE
	EXISTING UNDERGROUND ELECTRIC SERVICE
	EXISTING UNDERGROUND TELCO SERVICE
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	EXISTING CONCRETE PAVEMENT TO BE REMOVED FULL DEPTH
	EXISTING ASPHALT PAVEMENT TO BE REMOVED FULL DEPTH

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CONTRACTOR MUST LOCATE PRIVATE UTILITIES IN AREA
OF CONSTRUCTION PRIOR TO PROCEEDING WITH WORK



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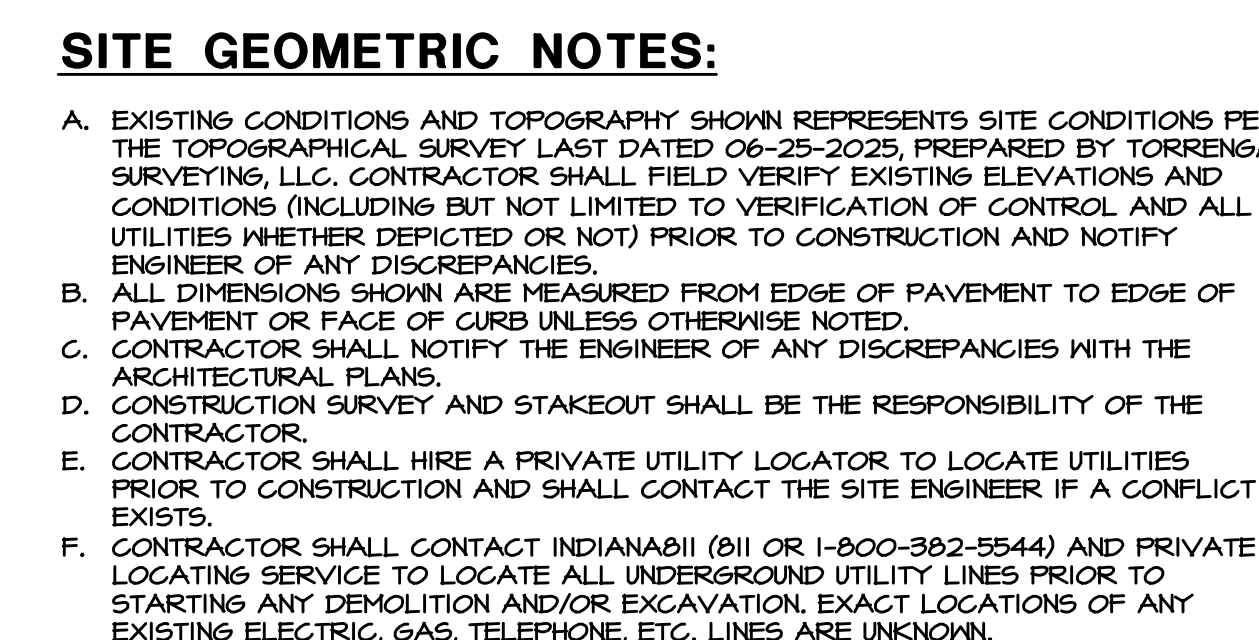
Two Pierce Place | Suite 1300 | Itasca | 60143 | 847.742.4063 | www.dla-ttd.com

SCHOOL TOWN OF MUNSTER
2025 NEW TENNIS FACILITY
MUNSTER HIGH SCHOOL
8823 COLUMBIA AVE. MUNSTER, IN 46321

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MEET:

C-1.1



NEW 5" CONCRETE SIDEWALK
5" PORTLAND CEMENT CONCRETE
4" INDOT #53 AGGREGATE

POSTTENSIONED CONCRETE TENNIS COURTS
(SEE ARCHITECTURAL PLANS FOR DETAILS)

NEW FULL DEPTH ASPHALT PAVEMENT
1-3/4" - 9.5MM HMA SURFACE COURSE
2-3/4" - 25MM HMA BASE
6" INDOT #53 AGGREGATE



WT Group
Engineering • Design • Consulting

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SHEET:

C-2.0

1 STORY
BRICK
BUILDING

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A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHICAL SURVEY LAST DATED 06-25-2025, PREPARED BY TORRENS & ASSOCIATES, LLC. CONTRACTOR SHALL VERIFY ALL CONDITIONS SHOWN AND REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER IMMEDIATELY.

B. ALL DIMENSIONS SHOWN ARE MEASURED FROM EDGE OF PAVEMENT TO EDGE OF CURB OR FROM FACE OF CURB TO FACE OF CURB.

C. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE ARCHITECTURAL PLANS.

D. CONTRACTOR SHALL VERIFY ALL DIMENSIONS SHOWN AND STAKEOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

E. CONTRACTOR SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS.

F. CONTRACTOR SHALL CONTACT INDIANAPOLIS (311 OR 1-800-392-5544) AND PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO START OF CONSTRUCTION. CONTRACTOR SHALL VERIFY ALL CONDITIONS OF ALL EXISTING ELECTRIC, GAS, TELEPHONE, ETC. LINES ARE UNKNOWN.

NEW 5" CONCRETE SIDEWALK
5" PORTLAND CEMENT CONCRETE
4" 1"DOT #53 AGGREGATE

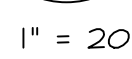
POSTTENSIONED CONCRETE TENNIS COURTS
(SEE ARCHITECTURAL PLANS FOR DETAILS)

NEW FULL DEPTH ASPHALT PAVEMENT
1-3/4" - 9.5MM HMA SURFACE COURSE
2-3/4" - 25MM HMA BASE
6" 1"DOT #53 AGGREGATE

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PROJECT #	2024.07
DATE:	AUGUST 12, 2023
SHEET TITLE:	
SITE GEOMETRIC PLAN	
SHEET:	C-2.1

SHEET:
C-2.1



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SHEET:
C-2.1

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1 STORY
BRICK
BUILDING

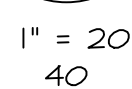
- A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHICAL SURVEY LAST DATED 06-25-2025, PREPARED BY TORRENSA & ASSOCIATES, LLC. CONTRACTOR SHALL VERIFY ALL CONDITIONS, ELEVATIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IMMEDIATELY.
- B. CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES WITH THE ARCHITECTURAL PLANS.
- C. CONTRACTOR SHALL COORDINATE ALL LANDSCAPING IMPROVEMENTS WITH LANDSCAPE PLANS.
- D. CONSTRUCTION SURVEY AND STAKEOUT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- E. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED.
- F. CONTRACTOR SHALL PROTECT ALL EXISTING AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.
- G. ASPHALT PAVEMENT MARKINGS SHALL BE MADE WITH HIGH QUALITY PAINT CONFORMING TO THE STANDARD SPECIFICATIONS.
- H. CONTRACTOR SHALL RESTORE ALL DISTURBED GREEN SPACES WITH 6" OF TOPSOIL, SEED, AND EROSION CONTROL BLANKET.
- I. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC., RESULTING FROM CONSTRUCTION TRAFFIC AND/OR EQUIPMENT. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR ENGINEER.
- J. CONTRACTOR SHALL RE-STRIFE ALL STRIPING DISTURBED WITHIN THE EXISTING STRIPING.
- K. CONTRACTOR SHALL MARK THE ADJACENT LOT TO BE REMOVED FOR THE LOT TO CONSTRUCTION SHALL HIRE A PRIVATE UTILITY LOCATOR TO LOCATE UTILITIES PRIOR TO CONSTRUCTION AND SHALL CONTACT THE SITE ENGINEER IF A CONFLICT EXISTS.
- L. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS FOR OPERATION OF CONSTRUCTION.
- M. ALL EXISTING SUBGRADE TO BE SCARIFIED (DISKED) TO A DEPTH OF 12" AND ALL EXISTING TOPSOIL TO BE TESTED USING A DYNAMIC CONE PENETROMETER. SEE GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS.
- N. ALL EXISTING ASPHALT AGGREGATE SHALL NOT BE RE-USED AS AGGREGATE BASE COURSE FOR THE NEW PAVEMENT SECTION.

1. NEW POSTTENSIONED CONCRETE TENNIS COURTS. (SEE ARCHITECTURAL PLANS FOR DETAILS).
2. NEW 3" CONCRETE SIDEWALK.
3. NEW CONCRETE STEPS.
4. EXISTING ASPHALT PATH TO REMAIN.
5. NEW FULL DEPTH SAND CURB TO PROVIDE CLEAN CONSTRUCTION BREAK.
6. NEW FULL DEPTH ASPHALT PAVEMENT.
7. EXISTING AREA TO REMAIN.
8. EXISTING TRAIL TO REMAIN.
9. NEW 2" WIDE BUTT JOINT.
10. EXISTING SIGN TO REMAIN.
11. EXISTING ASPHALT PAVEMENT TO REMAIN.
12. EXISTING CURB AND GUTTER TO REMAIN
13. NEW 6" X 12" CONCRETE CURB AND GUTTER.
14. NEW TENNIS COURT STRIPING. (SEE ARCHITECTURAL PLANS FOR DETAILS).
15. NEW BLEACHERS. (SEE ARCHITECTURAL PLANS FOR DETAILS).
16. NEW RADIUM MOUNTED ELECTRICAL TRANSFORMER (SEE ELECTRICAL PLANS FOR DETAILS).
17. NEW CONCRETE STAIRS. (SEE ARCHITECTURAL PLANS FOR DETAILS).
18. NEW PAD MOUNTED ELECTRICAL TRANSFORMER. (SEE ELECTRICAL PLANS FOR DETAILS).
19. NEW FENCE AND GATE. (SEE ARCHITECTURAL PLANS FOR DETAILS).
20. NEW 6" BARRIER CURB.
21. EXISTING FENCE TO REMAIN.
22. RE-STRIP TO MATCH EXISTING.

NEW 5" CONCRETE SIDEWALK
5" PORTLAND CEMENT CONCRETE
4" 1"DOT #53 AGGREGATE

POSTTENSIONED CONCRETE TENNIS COURTS
(SEE ARCHITECTURAL PLANS FOR DETAILS)

NEW FULL DEPTH ASPHALT PAVEMENT
1-3/4" - 9.5MM HMA SURFACE COURSE
2-3/4" - 25MM HMA BASE
6" 1"DOT #53 AGGREGATE

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Group

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PROJECT #	2024 072
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SHEET TITLE:



DEVELOPMENT
PLAN

SHEET: 001

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- 1 The bottom edge of the ramp or setback and top of curb shall be flush with the edge of adjacent pavement and gutter line.
- 2 A turning slope is not required at the top of the ramp for a one-way directional perpendicular curb ramp.
- 3 Curb ramp surface shall be coarse broomed transverse to the running slope.
- 4 See Standard Drawing E 604-SWCR-01 for cross slope exceptions.
- 5 See Standard Drawing E 604-SWCR-12, -13, and -14 for Detectable Warning Surface Placement, Configuration, and Details.
- 6 See Standard Drawing E 604-CSI-01 for sidewalk expansion joint details.

	Buffer or Other Non-Walkable Surface
	Ramp
	Detectable Warning Surface

INDIANA DEPARTMENT OF TRANSPORTATION	
ONE-WAY DIRECTIONAL PERPENDICULAR CURB RAMP COMPONENT DETAILS	
SEPTEMBER 2018	
STANDARD DRAWING NO.	E 604-SWCR-06

ELIZABETH W. PHILLIPS

REGISTERED

NO.

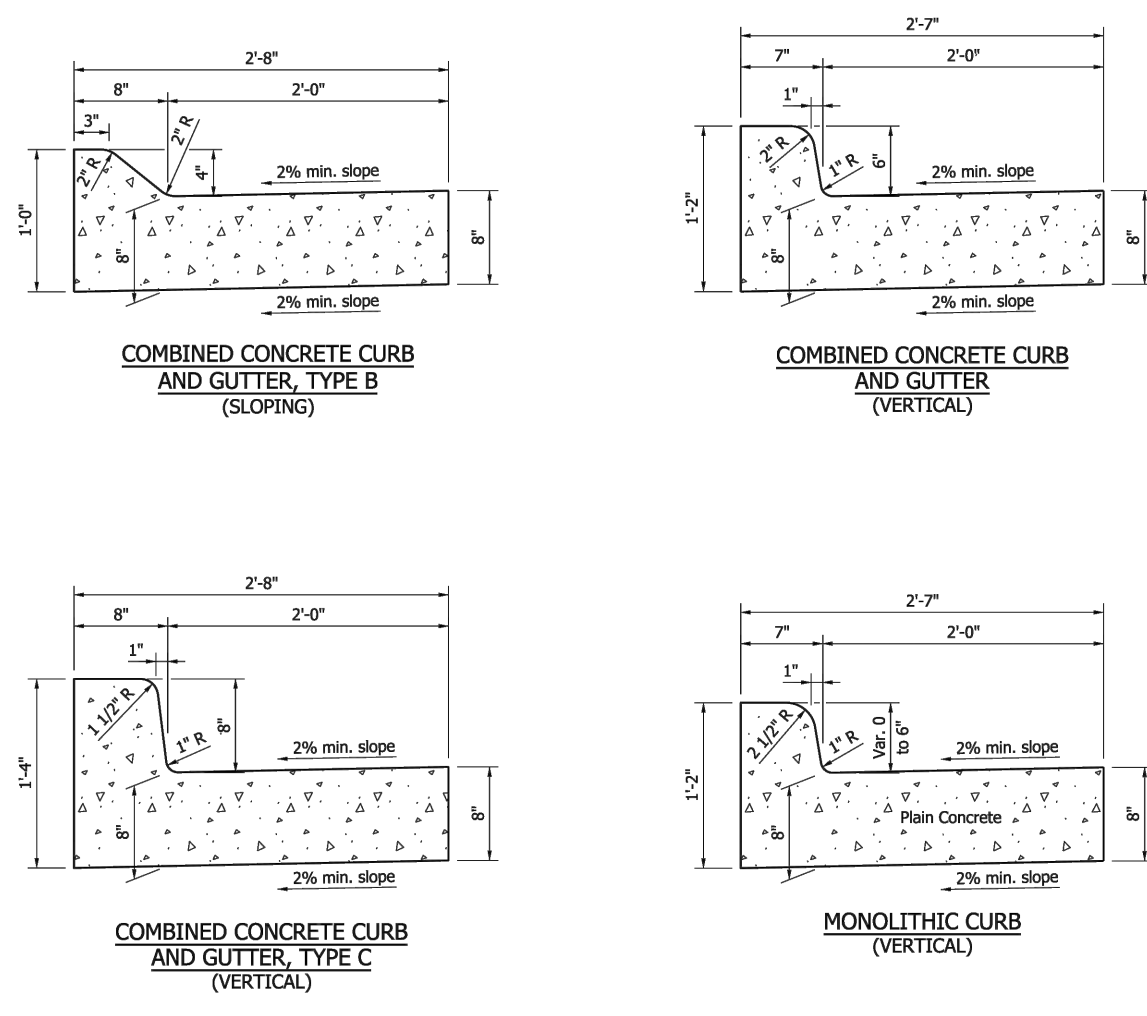
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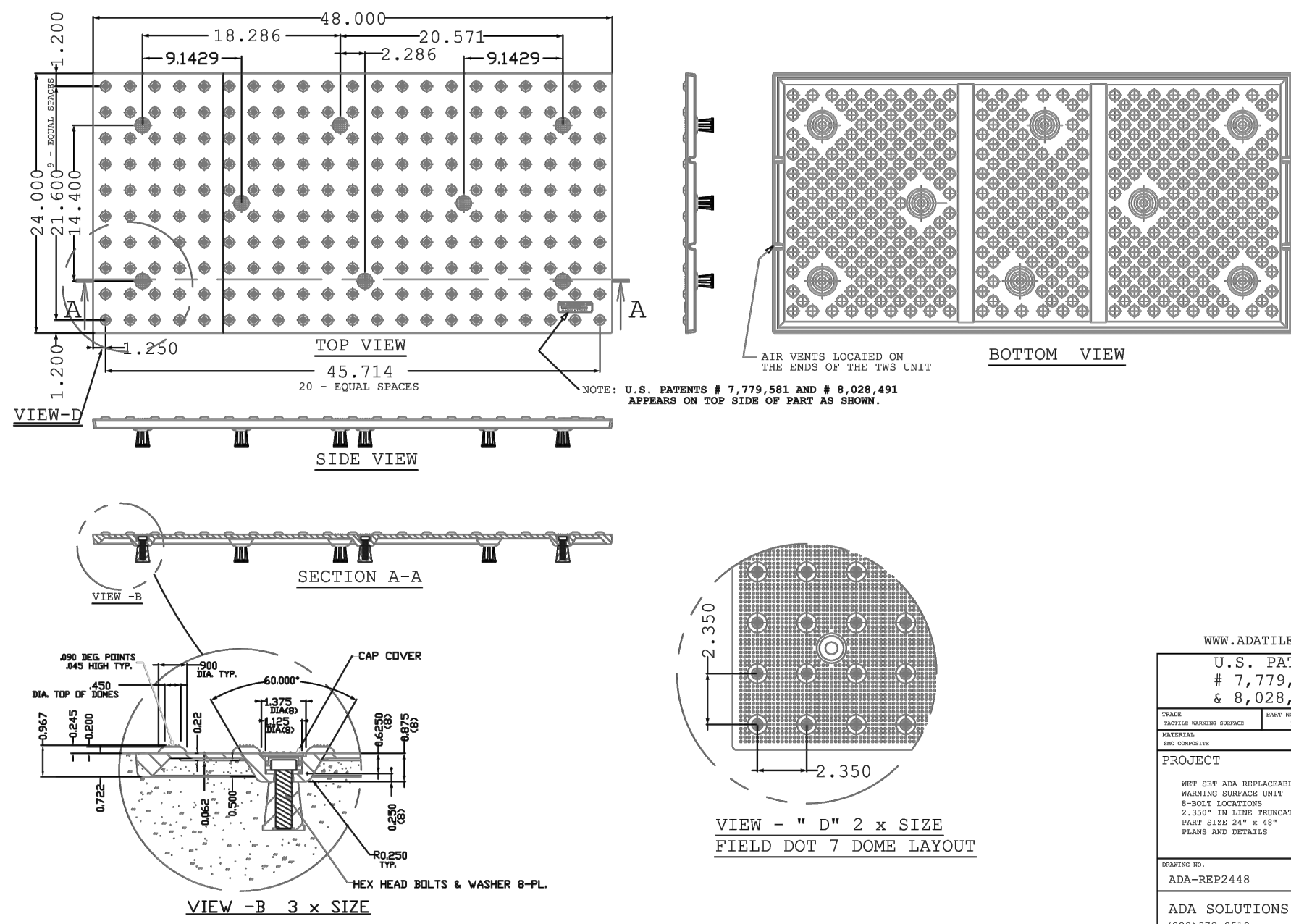
INDIANA

PROFESSIONAL ENGINEER

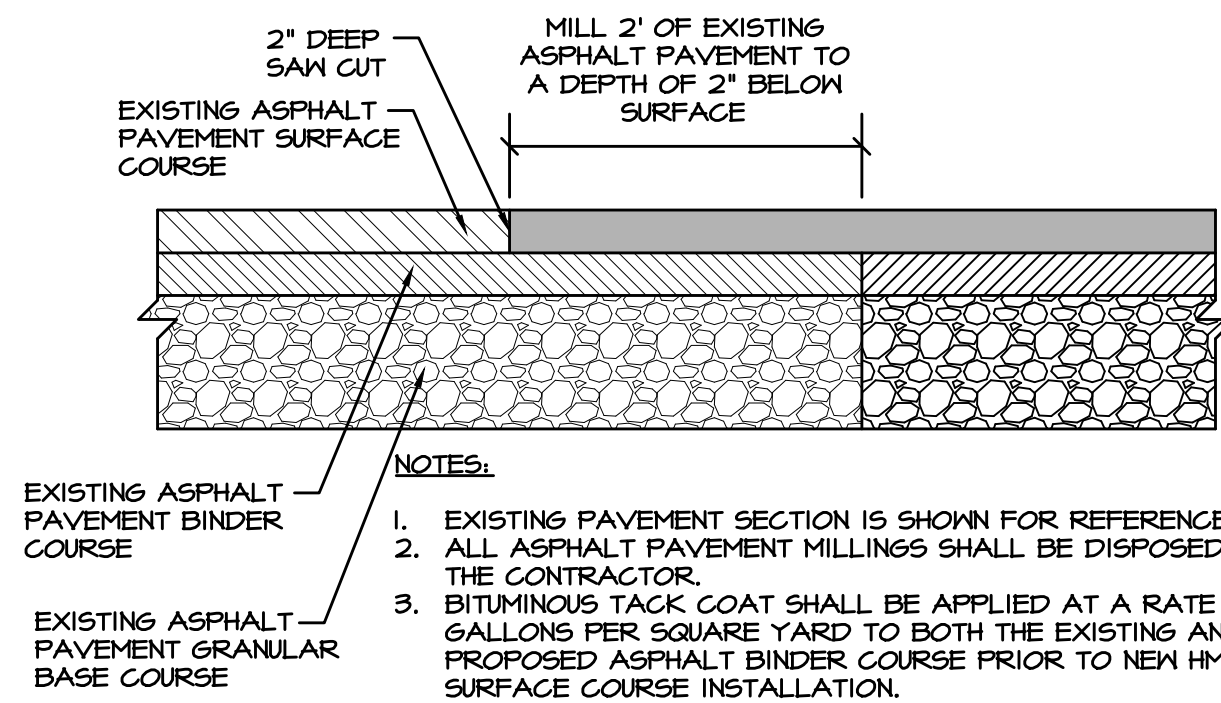
<i>/s/ Elizabeth W. Phillips</i>	03/29/11
DESIGN STANDARDS ENGINEER	DATE
<i>/s/ Joten Lackie</i>	04/25/11
CHIEF ENGINEER	DATE



INDIANA DEPARTMENT OF TRANSPORTATION	
COMBINED CONCRETE CURB AND GUTTER	
SEPTEMBER 2011	
STANDARD DRAWING NO.	E 605-CCCC-01
	<i>/s/ Richard L. VanCleave</i> 09/01/11 DESIGN STANDARDS ENGINEER DATE
	<i>/s/ Mark A. Miller</i> 09/01/11 CHIEF HIGHWAY ENGINEER DATE
DESIGN STANDARDS ENGINEER	

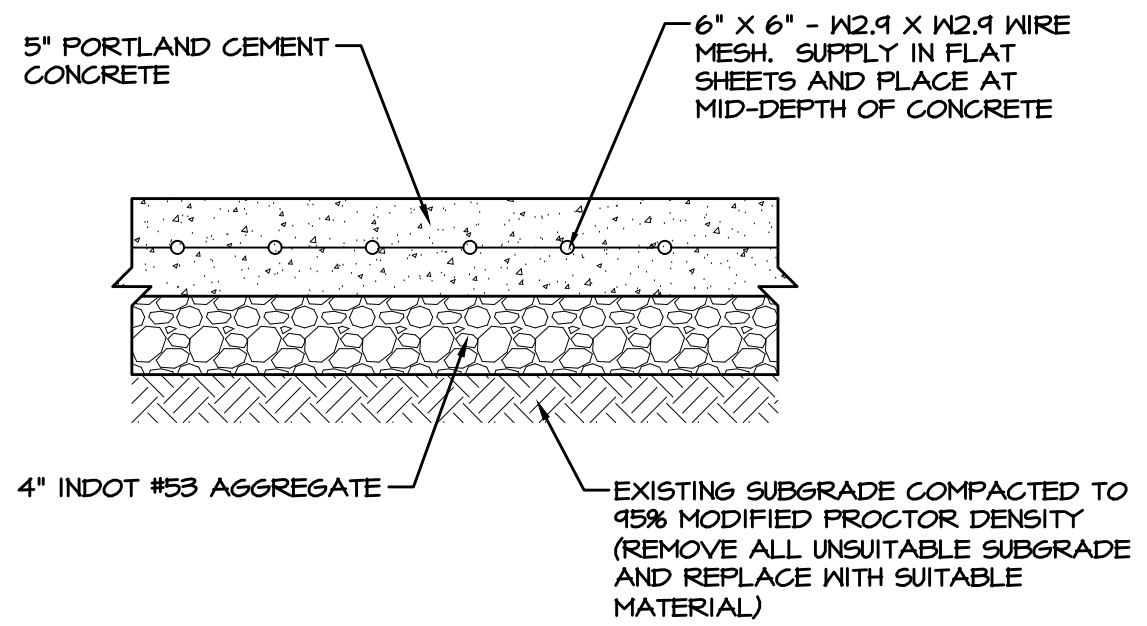


WWW.ADATILE.COM	
U.S. PATENT	
# 7,779,581	
& 8,028,491	
ISSUE	DATE
REGISTERED MARSHALL BUSINESS	24SEP2008
PATENT NO.	
PROJECT	
NEW EASY ADA REPLACEMENT TILE MARSHALL BUSINESS 2-8"X16" LOOKING 2-8"X16" LONE THROUGHTER FORD PATTERN PART 010 24" x 48" PLANS AND DETAILS	
ISSUING NO.	DATE
ADA-BEF2448	10-05-1
ADA SOLUTIONS, INC.	
(800)372-0519	
P.O. Box 3	
N. Billerica, Ms. 01862	

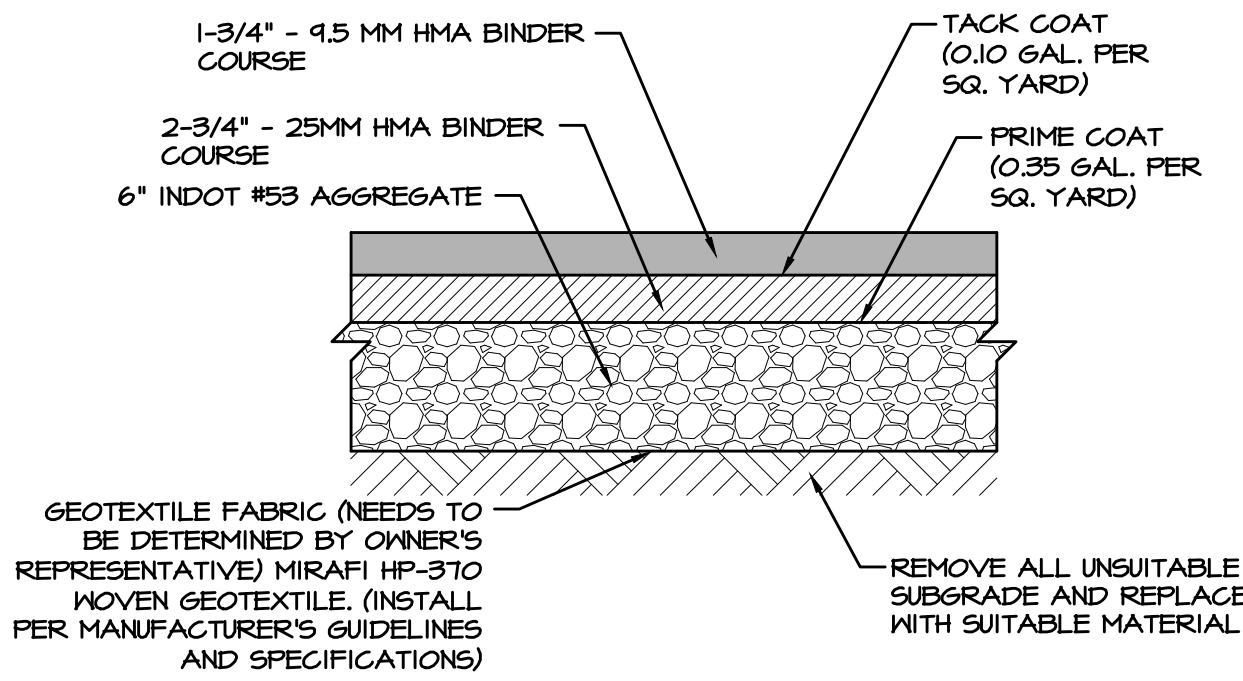


NOT TO SCALE

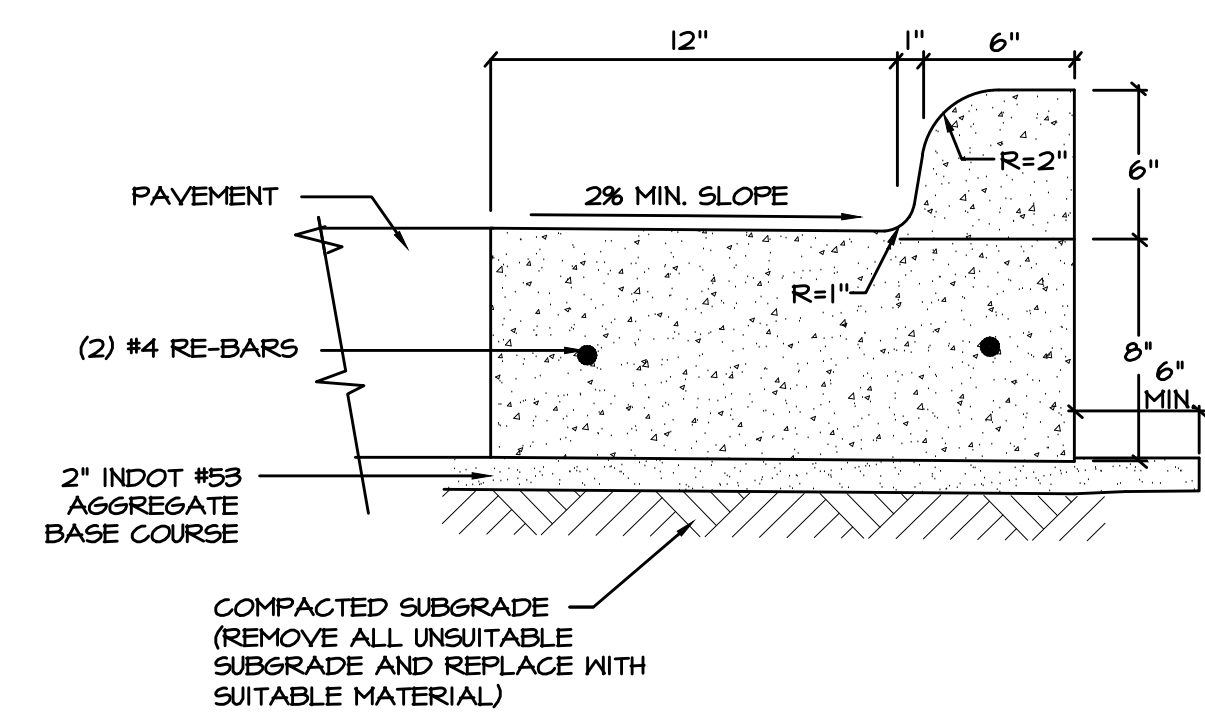
1. EXISTING PAVEMENT SECTION IS SHOWN FOR REFERENCE ONLY.
2. ALL ASPHALT PAVEMENT MILLINGS SHALL BE DISPOSED OF BY THE CONTRACTOR.
3. BITUMINOUS TACK COAT SHALL BE APPLIED AT A RATE OF 0.1 GALLONS PER SQUARE YARD TO BOTH THE EXISTING AND PROPOSED ASPHALT BINDER COURSE PRIOR TO NEW HMA SURFACE COURSE INSTALLATION.



NOT TO SCALE



NOT TO SCALE



NOT TO SCALE



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Structural | Mechanical/Electrical/Plumbing
Civil | Land Survey | Telecommunications/Aquatic
Accessibility Consulting | Design & Program Management

Engineering with Precision, Pace & Passion.

2675 Pratum Avenue | Hoffman Estates, IL 60192
P: 224.293.8333 | F: 224.293.8444
wtengineering.com

SITE DEVELOPMENT DETAILS

SHEET:

C 3 2





A. EXISTING CONDITIONS AND TOPOGRAPHY SHOWN REPRESENTS SITE CONDITIONS PER THE TOPOGRAPHICAL SURVEY LAST DATED 06-25-2023, PREPARED BY TORRENZA ENGINEERING, LLC. THE CONTRACTOR SHALL VERIFY THE EXISTING CONDITIONS AND CONDITIONS (INCLUDING BUT NOT LIMITED TO VERIFICATION OF CONTROL AND ALL UTILITIES WHETHER DEPICTED OR NOT) PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER IMMEDIATELY.

B. ALL PROPOSED GRADES ARE GIVEN TO FINISHED GRADE, I.E. TOP OF PROPOSED ASPHALT, CONCRETE, TOP OF PROPOSED CURB, ETC. SEE DETAILS FOR PAVEMENT THICKNESS.

C. CONTRACTOR SHALL CONTACT INDIANA 811, A PRIVATE LOCATING SERVICE TO LOCATE ALL UNDERGROUND UTILITY LINES PRIOR TO STARTING ANY DEMOLITION AND/OR CONSTRUCTION. EXISTING UTILITIES SHALL BE MAINTAINED AND ALL UTILITY EGRESS LINES ARE UNKNOWN.

D. CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE END OF EACH WORKING DAY. IF DRAINAGE OR CONSTRUCTION OPERATIONS, FAILURE TO PROVIDE ADEQUATE DRAINAGE WILL PRECLUDE THE CONTRACTOR FROM ANY POSSIBLE COMPENSATION REQUESTED FOR DELAYS, DAMAGES, AND/OR OTHERS.

E. CONTRACTOR SHALL RESTORE ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS TO ORIGINAL CONDITION OR BETTER.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING ASPHALT, CONCRETE, CURBS, SIDEWALKS, ETC. RESULTING FROM CONSTRUCTION TRAFFIC AND/OR OPERATIONS. REPAIRS SHALL BE MADE TO THE SATISFACTION OF THE OWNER AND/OR CONTRACTOR.

G. CONTRACTOR TO UTILIZE CARE WHEN WORKING NEAR EXISTING UTILITIES TO REMAIN. ANY DAMAGE TO EXISTING UTILITIES NOT NOTED TO BE REMOVED SHALL BE REPAIRED TO ORIGINAL CONDITION OR BETTER.

H. ALL EXISTING TREES SHOWN ARE TO REMAIN UNLESS OTHERWISE NOTED.

I. ALL HANDICAP ACCESSIBLE ROUTES (SIDEWALKS, SIDEWALKS, PAVEMENTS, ETC.) SHALL BE MAINTAINED TO MEET THE REQUIREMENTS OF THE AMERICAN WITH DISABILITIES ACT OF 1990. ACCESSIBLE PARKING STALLS SHALL MAINTAIN A MAXIMUM SLOPE OF 2.00% IN ALL DIRECTIONS.

J. ALL EXISTING UTILITY ITEM REMOVED UNDER ANY PROPOSED BUILDING, PAVEMENT, OR WALK OR WITHIN 24" THEREOF SHALL BE BACKFILLED WITH ENGINEERED FILL TO MEET THE REQUIREMENTS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

K. ALL FIRE ACCESS LINES WITHIN THE PROJECT AREA SHALL REMAIN IN SERVICE, CLEAN OF DEBRIS, AND ACCESSIBLE FOR USE BY EMERGENCY VEHICLES.

L. ALL EXISTING DRIVEWAYS SHALL BE MAINTAINED AND REPAIRED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY SHALL BE REMOVED IMMEDIATELY.

M. ALL EXISTING SUBGRADE TO BE SCARIFIED (DISKED) TO A DEPTH OF 12" AND RE-COMPACTED, AND THEN TESTED USING A DYNAMIC CONE PENETROMETER. SEE SECTION 201.05 FOR DETAILS.

N. ALL EXCESS SOILS THAT CANNOT BE USED AS SUITABLE FILL SHALL BE HAILED FROM THE SITE AND LEGALLY DISPOSED OF.

O. SUBMITTALS FOR THE SUBMITTALS WITHIN THE GEOTECHNICAL ENGINEERING REPORT DATED 11-8-2024 PREPARED BY GEOCON PROFESSIONAL SERVICES, LLC, SHALL BE SUBMITTED PRIOR TO THE PROPOSED CONSTRUCTION. ALL SUBMITTALS SHALL BE REFERRED TO THE GEOTECHNICAL ENGINEERING REPORT DATED 11-8-2024 PREPARED BY GEOCON PROFESSIONAL SERVICES, LLC FOR EXISTING TOPSOIL DEPTHS.

P. ALL PAVEMENTS AND AGGREGATE SHALL BE CONSTRUCTED TO THE REPAIRED OR AGGREGATE BASE COURSE FOR THE NEW PAVEMENT SECTION.

	EXISTING SPOT GRADE
	PROPOSED SPOT GRADE
	INTERPOLATED SPOT GRADE
	PROPOSED RIM ELEVATION
	EXISTING CONTOUR LINE
	PROPOSED CONTOUR LINE
	OVERLAND FLOW ARROW
	100 YEAR OVERLAND FLOW ROUTE
TP	TOP OF PAVEMENT ELEVATION
TW	TOP OF SIDEWALK ELEVATION
FF	FINISHED FLOOR ELEVATION
TC	TOP OF CURB ELEVATION
FL	FLOW LINE ELEVATION
ADJUST	ADJUST EXISTING RIM ELEVATION
	EXISTING CATCH BASIN / INLET
	EXISTING BEEHIVE CATCH BASIN
	EXISTING MANHOLE
	PROPOSED NYLOPLAST DRAIN BASIN
	PROPOSED INLET
	PROPOSED SQUARE NDS CATCH BASIN

NEW 5" CONCRETE SIDEWALK
5" PORTLAND CEMENT CONCRETE
4" INDOT #53 AGGREGATE

POSTTENSIONED CONCRETE TENNIS COURTS
(SEE ARCHITECTURAL PLANS FOR DETAILS)

NEW FULL DEPTH ASPHALT PAVEMENT
1-3/4" - 9.5MM HMA SURFACE COURSE
2-3/4" - 25MM HMA BASE
6" INDOT #53 AGGREGATE



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WT GROUP	
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Structural
Civil | Land
Accessibility C

Group Engineering

Group 2675 Prod.
P: 2

Engineering • Design • Consulting

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SHEET TITLE:

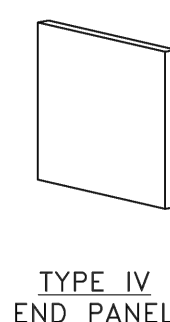
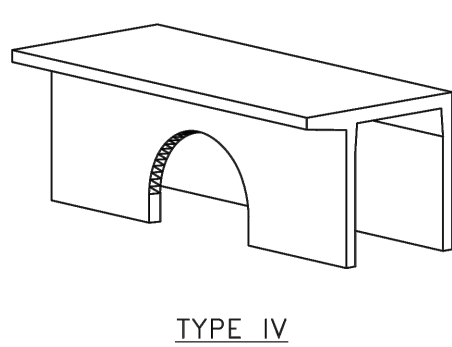
SITE GRADING
PLAN

0.1



NOTES:

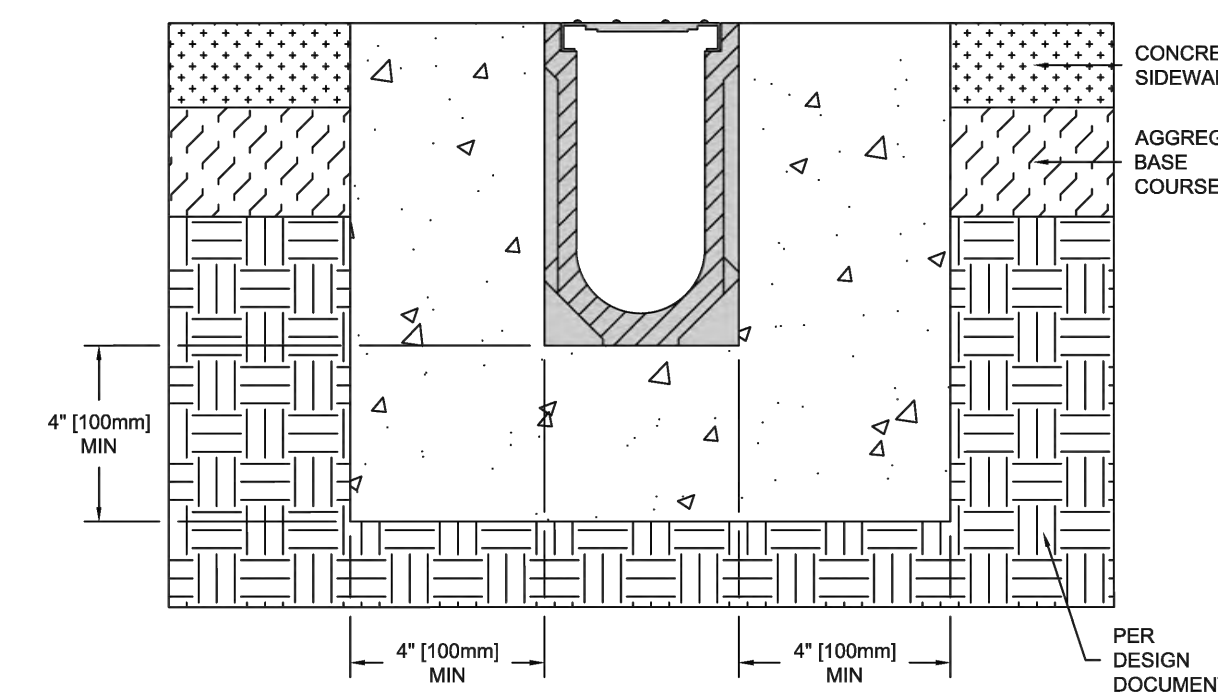
1. OPENING LOCATIONS AND SHAPES MAY VARY.
2. SP - INDICATES A MODULE WITH MODIFICATIONS.
3. P - INDICATES A MODULE WITH A PANEL ATTACHMENT
4. POCKET WINDOW OPENINGS ARE OPTIONAL.



NOTES:

1. STORMTRAP REQUIRES CONCRETE SPLASH PADS UNDER ALL OPEN GRATES AND ALL PIPE PENETRATIONS WITHIN THE STORMTRAP SYSTEM TO PREVENT DISPLACEMENT OF STONE.
2. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO PROVIDE AND INSTALL ALL CONCRETE SPLASH PADS AND GEOWEB PER THE INSTALLATION NOTES AND DETAILS SHOWN ON SHEET 6.0.

SHEET NUMBER: 7.0



NOTES:

1. IT IS NECESSARY TO ENSURE MINIMUM DIMENSIONS SHOWN ARE SUITABLE FOR EXISTING GROUND CONDITIONS. *ENGINEERING ADVICE MAY BE REQUIRED.*
2. MINIMUM CONCRETE STRENGTH OF 4,000 PSI IS RECOMMENDED. CONCRETE SHOULD BE VIBRATED TO ELIMINATE AIR POCKETS.
3. EXPANSION AND CONTRACTION CONTROL JOINTS AND REINFORCEMENT ARE RECOMMENDED TO PROTECT CHANNEL AND CONCRETE SURROUND. *ENGINEERING ADVICE MAY BE REQUIRED.*
4. REFER TO ACO'S LATEST INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS.

S4000-FACTS	SYSTEM 4000:		ACO Polymer Products, Inc.	
				
Date: 12/04/13	INSTALLATION DRAWING - ACO SPORT			
Arizona Tel: 888-490-9552 e-mail: sales@acousa.com	Ohio Tel: 800-543-4764	www.acousa.com	South Carolina Tel: 800-622-2377	

SPECIFICATION CLAUSE

MATERIALS	
CHANNELS SHALL BE MANUFACTURED FROM POLYESTER RESIN POLYMER CONCRETE. MINIMUM PROPERTIES OF POLYMER CONCRETE WILL BE AS FOLLOWS:	
COMPRESSIVE STRENGTH:	14,000 PSI
FLEXURAL STRENGTH:	4,000 PSI
TENSILE STRENGTH:	1,500 PSI
WATER ABSORPTION:	0.07%
FROST PROOF	YES
DILUTE ACID AND ALKALI RESISTANT	YES
B17 SALT SPRAY TEST COMPLIANT	YES

THE SYSTEM SHALL BE 4" (100mm) NOMINAL
INTERNAL WIDTH AND A 6.1" (155mm) OVERALL
WIDTH. ALL CHANNELS SHALL BE INTERLOCKING
WITH A MALE/FEMALE JOINT.

4002 CHANNEL : INVERT DEPTH - 4.65"
4010 CHANNEL : INVERT DEPTH - 6.54"
4020 CHANNEL : INVERT DEPTH - 8.90"
4030 CHANNEL : INVERT DEPTH - 11.26"

STANDARD ACO DRAIN GRATES AND LOCKING DEVICES ARE USED, SEE SEPARATE SPECIFICATION SHEETS FOR INFORMATION.

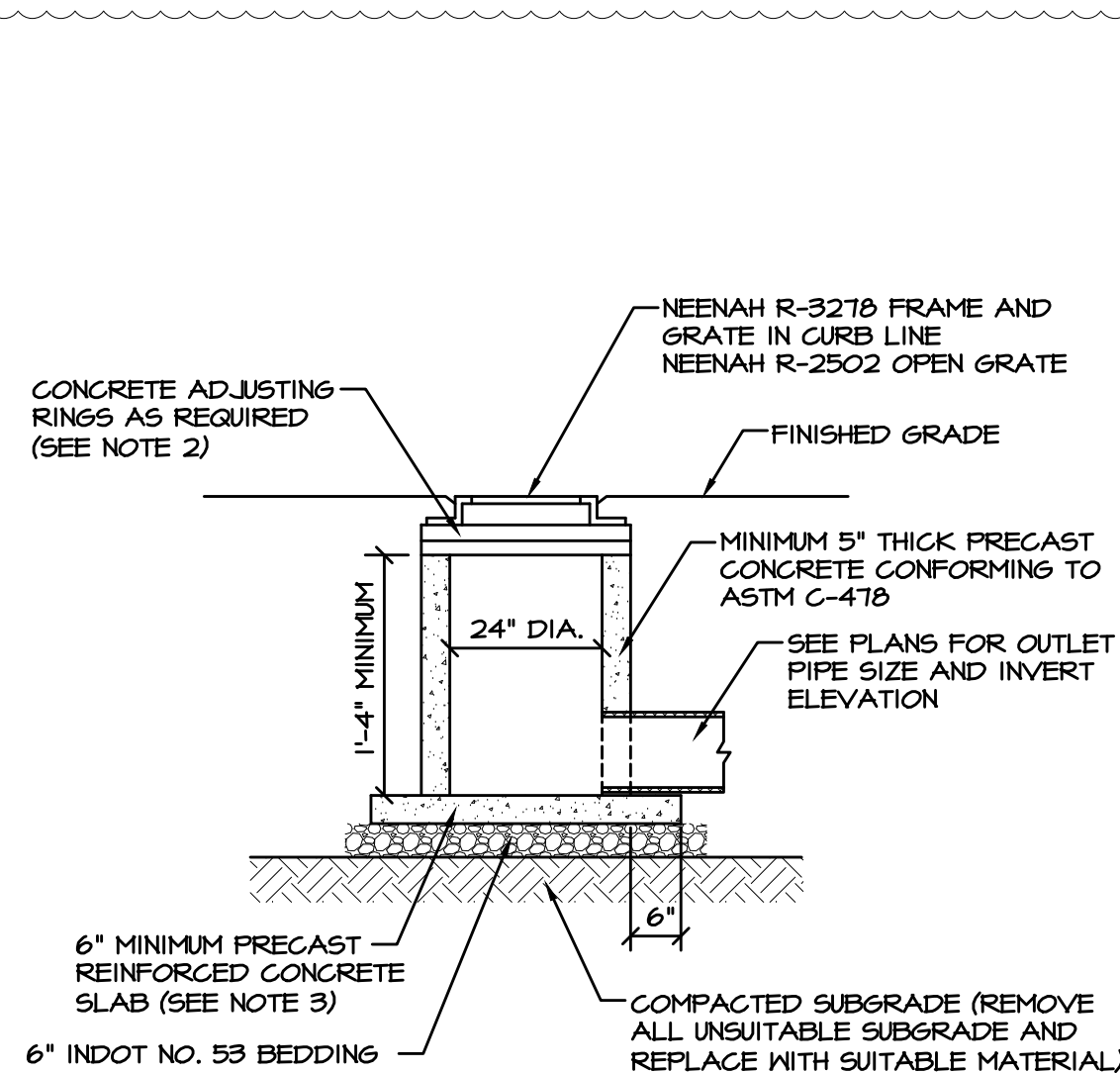
THE COMPLETE DRAINAGE SYSTEM SHALL BE BY ACO POLYMER PRODUCTS, INC. ANY DEVIATION OR PARTIAL SYSTEM DESIGN AND/OR IMPROPER INSTALLATION WILL VOID ANY AND ALL WARRANTIES PROVIDED BY ACO POLYMER PRODUCTS, INC.

THE SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
REFER TO ARCHITECT'S PLANS FOR TRENCH AND CATCH BASIN LOCATION.

ACO Polymer Products, Inc.		
craft St AZ 85122 9988 9899	P.O. Box 245 Chardon, OH 44024 Tel: 440-285-7000 Fax: 440-285-8517	4211 Pleasant Rd. Fort Mill, SC 29708 Tel: 800-543-4764 Fax: 803-802-1063
a.com	South Carolina Tel: 800-622-2377	

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DLA^{architects}
www.dla-tld.com

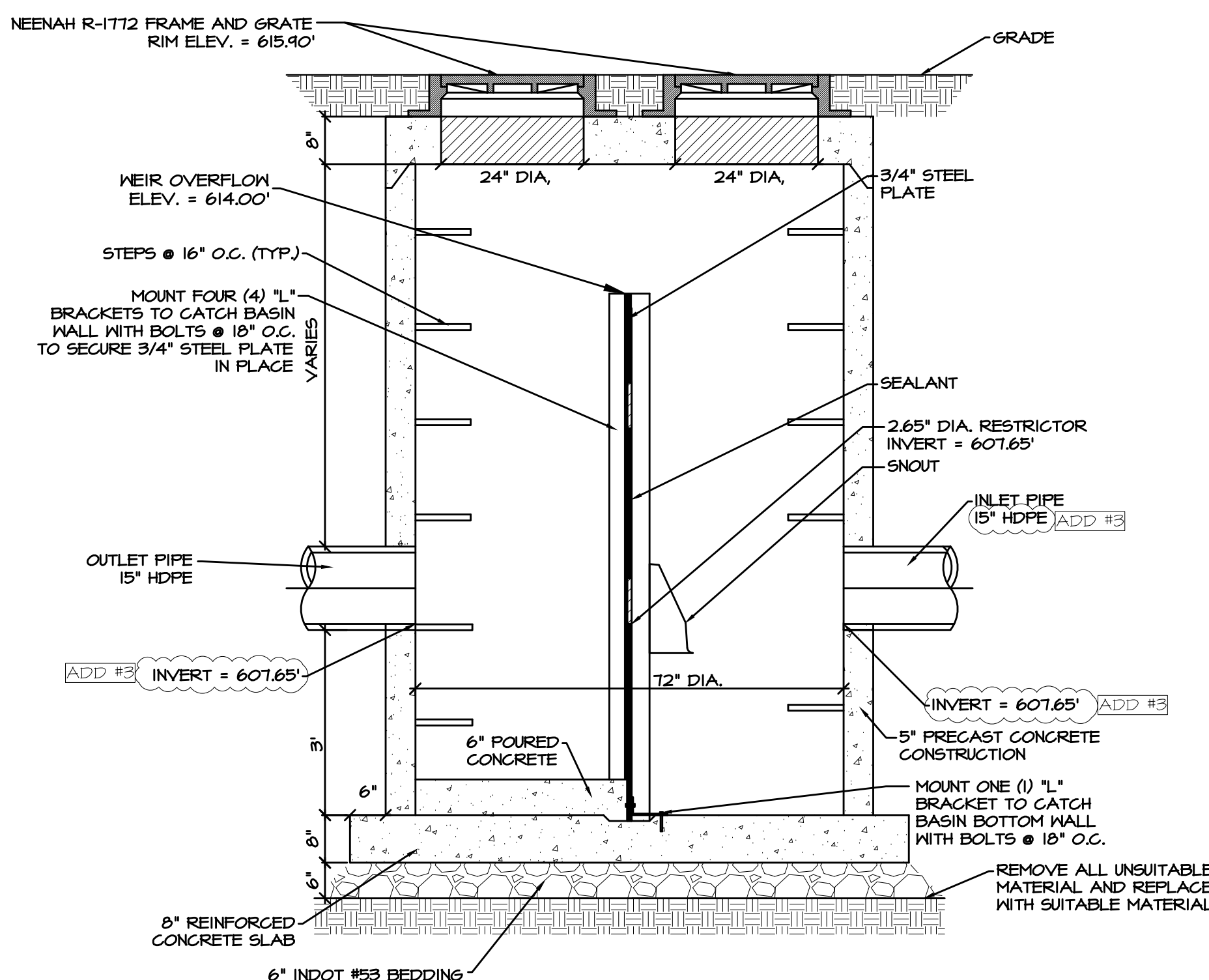
88823 COLUMBIA AVE. MUNSTER, IN 46321



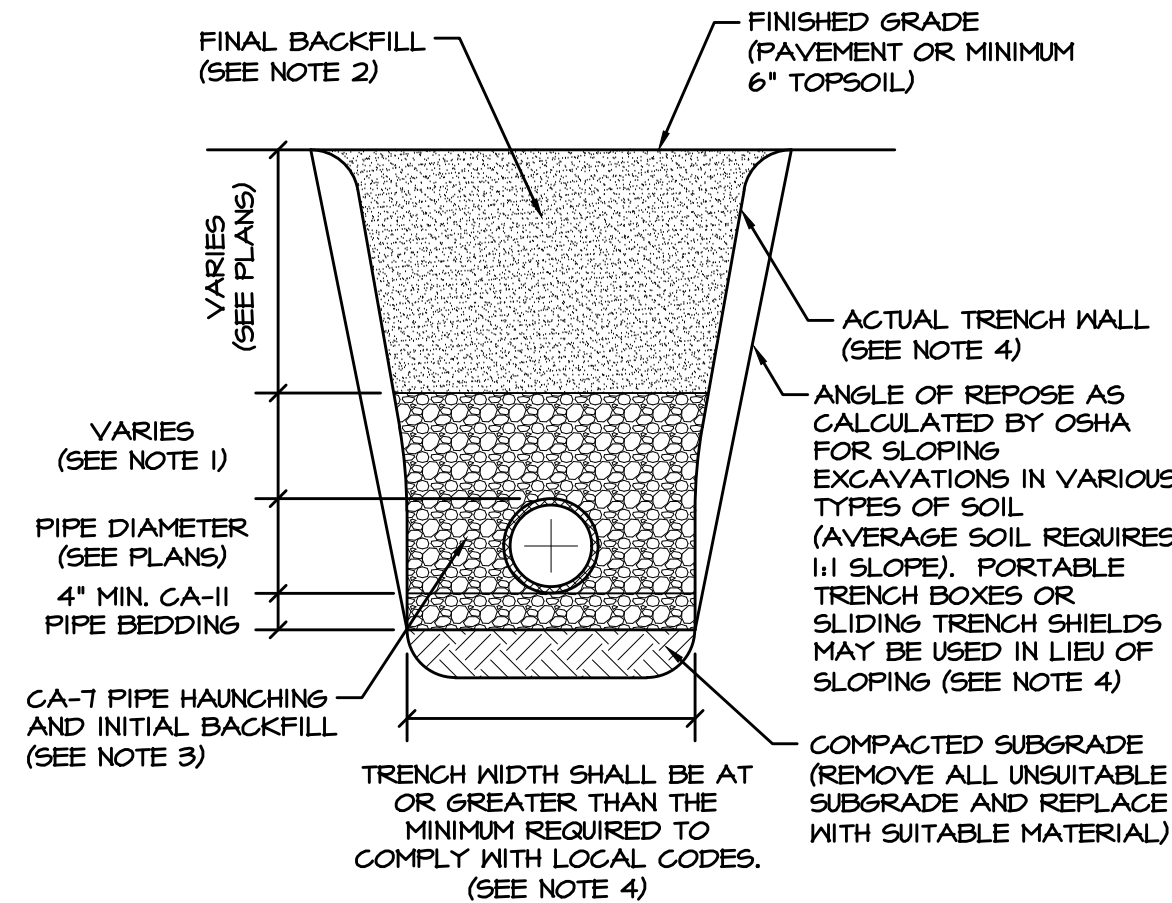
NOTES:

1. PRECAST REINFORCED CONCRETE ADJUSTING RINGS SHALL CONFORM TO ASTM C-34 (COMPRESSIVE STRENGTH TEST).
2. MAXIMUM OF TWO CONCRETE ADJUSTING RINGS ARE ALLOWED AND THE TOTAL ADJUSTMENT HEIGHT SHALL NOT EXCEED 8".
3. PRECAST REINFORCED MONOLITHIC CONCRETE MANHOLE BOTTOM WITH INTERNAL SLOPEILLS CAN BE SUBSTITUTED IN PLACE OF THE CONCRETE BOTTOM SLAB DESIGN SHOWN.
4. SEE PLANS FOR INLET RIM ELEVATIONS AND PIPE INVERT ELEVATIONS AND LOCATIONS.

DETAIL - INLET
NOT TO SCALE



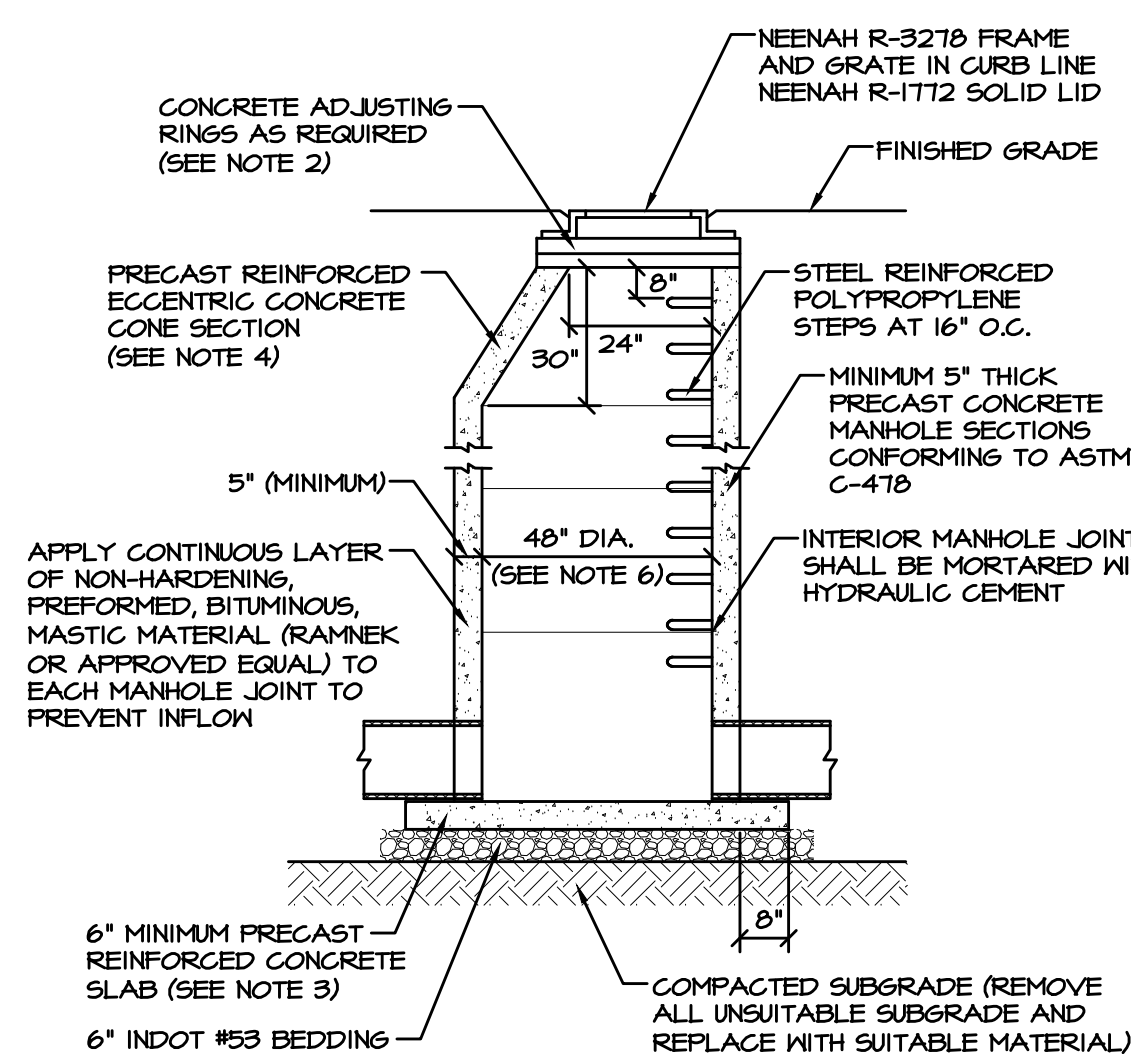
DETAIL - 72" CATCH BASIN WITH RESTRICTOR (STRUCTURE #7)
NOT TO SCALE



NOTES:

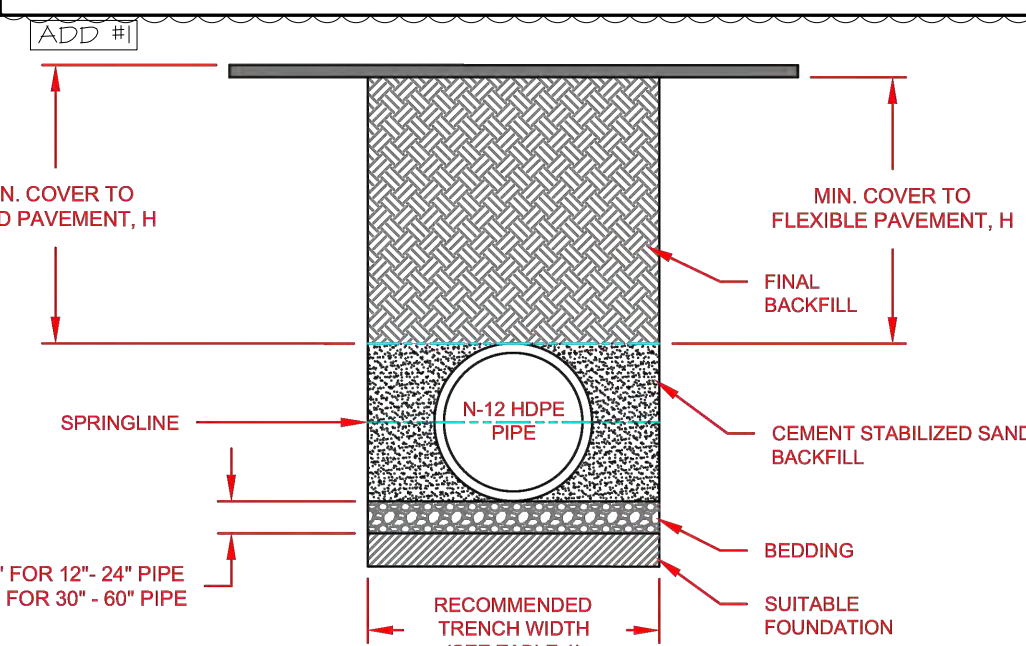
1. 12" MINIMUM CA-7 INITIAL BACKFILL REQUIRED FOR PIPES UP TO AND INCLUDING 48" IN DIAMETER. 18" MINIMUM CA-7 INITIAL BACKFILL REQUIRED FOR PIPES GREATER THAN 48" IN DIAMETER.
2. BACKFILL TRENCH WITH INORGANIC EXCAVATED MATERIAL EXCEPT WHERE UNDER EXISTING PAVEMENT WHERE A GRANULAR MATERIAL IS REQUIRED.
3. ALL BACKFILL MATERIALS SHALL BE PROPERLY COMPACTED ACCORDING TO THE "STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN ILLINOIS," EDITION 20-40-20.
4. ALL TRENCH EXCAVATIONS SHALL BE PROTECTED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS, LAWS AND RULES. AT A MINIMUM, THEY SHALL NOT BE LESS THAN THE STANDARDS AND REGULATIONS SET FORTH BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

DETAIL - FLEXIBLE PIPE TRENCH
NOT TO SCALE



1. PRECAST REINFORCED CONCRETE CONE SECTION AND ADJUSTING RINGS SHALL CONFORM TO ASTM C-394 (COMPRESSIVE STRENGTH TEST).
2. MAXIMUM ALLOWABLE HEAVE FOR CONCRETE ADJUSTING RINGS SHALL BE 8".
3. PRECAST REINFORCED MONOLITHIC CONCRETE MANHOLE BOTTOM WITH INTERNAL REINFORCED SHALL BE SUBSTITUTED IN PLACE OF THE CONCRETE BOTTOM SLAB DESIGN SHOWN.
4. FLAT-TOP SLABS SHALL BE PROVIDED FOR SHALLOW MANHOLE INSTALLATIONS. ONLY SLAB SHALL BE DESIGNED FOR HS-20 TRAFFIC LOADING WHEN LOCATED IN PAVED AREAS.
5. MANHOLE BARREL SECTIONS SHALL BE TONGUE AND GROOVE TYPE.
6. MANHOLE WALL THICKNESS SHALL BE 12" MINIMUM. RINGS AND JOINTS SHALL SHOW A MINIMUM REQUIRED FOR 48" DIA. PRECAST REINFORCED CONCRETE STORM MANHOLES.
7. SEE ELEVATIONS FOR MANHOLE DIAMETER SIZES, DIA. ELEVATIONS AND PIPE SIZES FOR ELEVATIONS AND JOINTS.

DETAIL - STORM MANHOLE
NOT TO SCALE



(SEE TABLE 1)

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS." LATESTED APPROVED. NATURAL SOILS SHALL BE OF ADEQUATE STIFFNESS TO WITHSTAND A VERTICAL CUT WITHOUT MATERIAL SLOUGHING. DUE TO THE FINAL SETBACK DISTANCE FROM EXISTING SAND/CSS SHALL BE COMPACTED TO 80% SPIR OR GREATER. SEE SPECIFICATION SECTION 7.1 REGARDING SET BACK DISTANCE.

2. REMEDIATED TRENCH WIDTHS ARE LISTED IN TABLE 1 PER ASTM D2321. THESE VALUES ARE BASED ON PROVIDING SUFFICIENT SPACE BETWEEN THE PIPE O.D. AND THE TRENCH WALL, SUCH THAT WORKING ROOM FOR COMPACTION EQUIPMENT IS PROVIDED WITHOUT DAMAGING THE PIPE OR TRENCH WALL INTEGRITY. NARROWER TRENCHES MAY BE POSSIBLE BASED ON THE COMPACTION EQUIPMENT.

3. CSS SHALL HAVE A MIX DESIGN OF ADEQUATE FINAL STRENGTH TO CARRY LIVE AND DEAD LOADS, BUT ALLOW FOR ANY FUTURE EXCAVATION. TYPICAL 7 DAY COMPRESSIVE STRENGTHS RANGE FROM 500 PSI TO 100 PSI. MIX DESIGNS CAN VARY BASED ON THE GEMENT, ASH, SSOL, ADMIXTURES, AND WATER RATIO AND SHALL BE DETERMINED AND DEFINED BY THE ENGINEER OF RECORD. THE AMERICAN CONCRETE INSTITUTE (ACI) (PART ACI 230.1R-05 IS ONE RESOURCE THAT PROVIDES MIX DESIGNS BASED ON DIFFERENT CLASSIFICATIONS OF SOIL.

4. CSS SHOULD NOT BE PLACED WHEN TEMPERATURES ARE BELOW 40°F, AGAINST FROZEN TRENCH MATERIAL OR WHEN APPRECIABLE PRECIPITATION IS FORECASTED DURING PLACEMENT.

5. FOUNDATION, WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

BEDDING: SUITABLE MATERIAL SHALL BE CSS (OR CLASS) OR I PER ASTM D2321. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO MINIMUM BEDDING THICKNESS. MINIMUM BEDDING THICKNESS SHALL BE 6" (150mm) FOR 30"-34" DIAMETER PIPE (300mm-600mm); 8" (150mm) FOR 36"-60" (900mm-1500mm) DIAMETER PIPE; THE MIDDLE 13 BENEFIT THE PIPE INVERT SHALL BE LOOSELY PLACED.

7. **FINAL BACKFILL:** THE CSS BACKFILL SHALL BE ALLOWED TO CURE AT LEAST 4 DAYS TO REACH AN INITIAL SET STRENGTH PRIOR TO PLACING SOIL ABOVE THE EMBEDEDMENT. ADDITIONAL CURE TIME MAY BE REQUIRED DEPENDING ON THE TYPE OF CURING AGENT USED. (SEE NOTE 9).

8. **MINIMUM COVER:** MINIMUM COVER IN IS 12" (300mm) THROUGH 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE. MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE Pavement OR TO TOP OF RIGID Pavement.

PIPE DIAM.	MIN. TRENCH WIDTH
12" (300mm)	30" (762mm)
15" (375mm)	34" (864mm)
18" (450mm)	39" (991mm)
24" (600mm)	45" (1219mm)
30" (750mm)	56" (1422mm)
36" (900mm)	64" (1628mm)
42" (1050mm)	72" (1829mm)
48" (1200mm)	80" (2032mm)
60" (1500mm)	96" (2438mm)

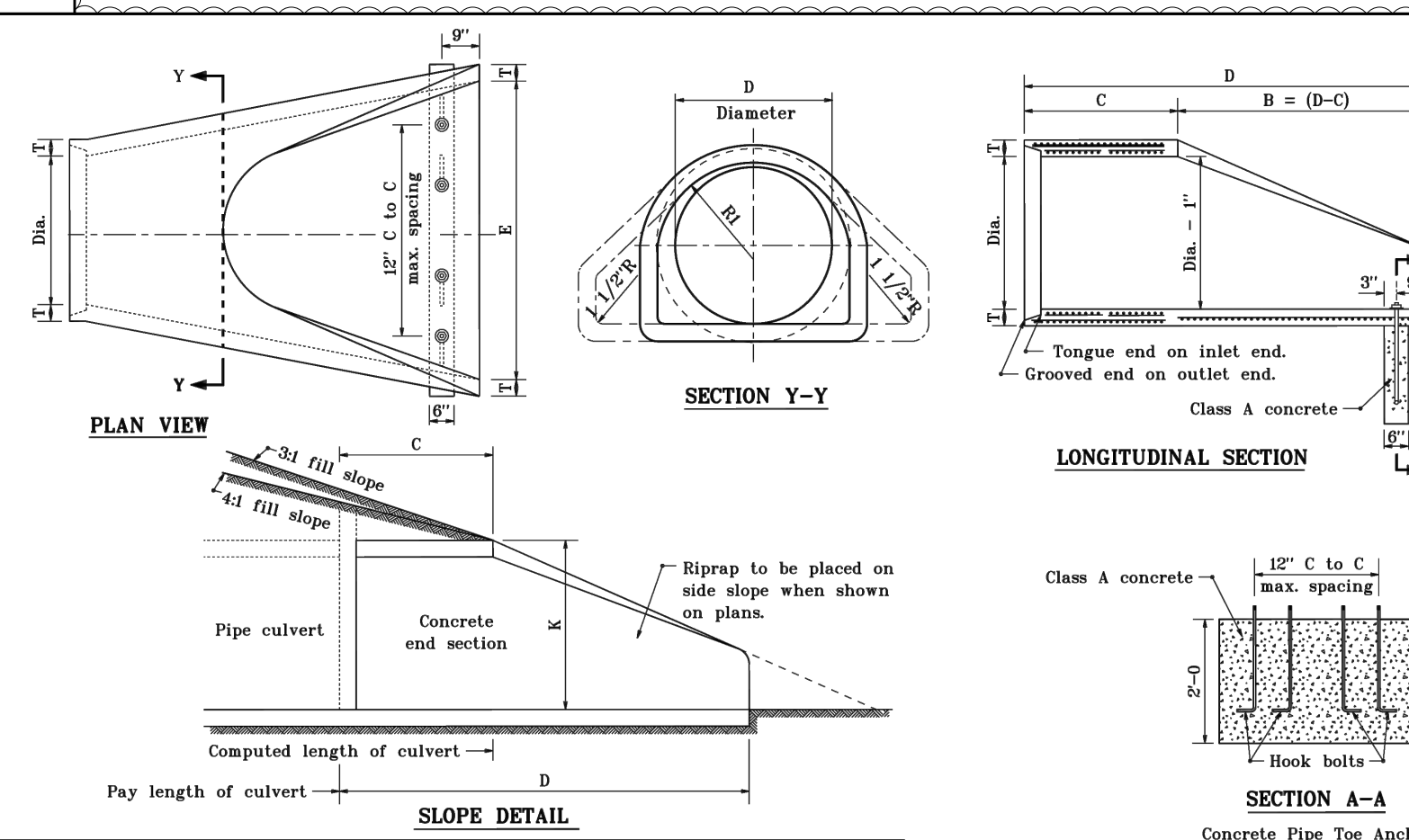
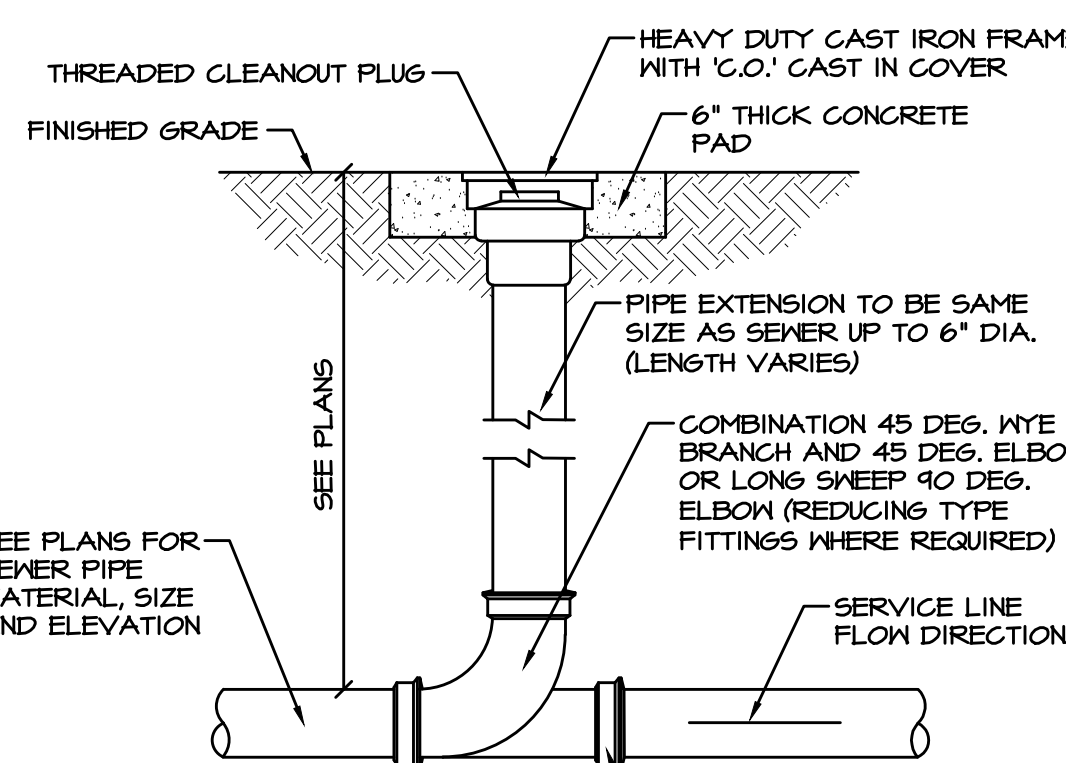
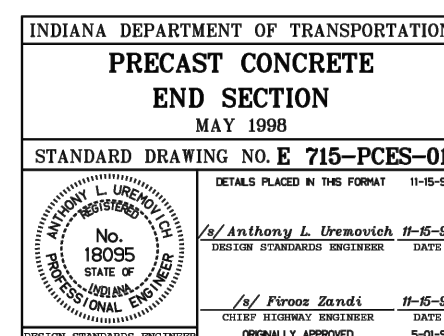


TABLE OF DIMENSIONS									
DIA.	T (min.)	A (1")	C (5")	D (1")	E (1")	K	R1	R2	APPROX. WEIGHT, lb.
12"	2"	5"	4-3	6-2	2-0	1.5	10 1/2"	9"	800
15"	2 1/2"	7"	4-3	6-2	2-0	1.5	12 1/2"	11"	1100
18"	2 3/4"	11"	4-1	6-2	3-0	1.8	15 1/2"	12"	1300
24"	2 3/4"	11"	3-6	6-1	3-0	2.1	16 1/2"	13"	1500
34"	3"	1-0	2-2	6-3	4-0	2.5	16 1/2"	14"	2000
37"	3 1/4"	1-1	2-5	6-3	4-0	2.6	16 1/2"	14 1/2"	1800
38"	3 1/4"	1-0	2-6	6-3	4-0	2.6	16 1/2"	15"	2400
38"	3 3/4"	1-5	2-6	6-3	5-0	3.1	22 1/2"	17 1/2"	1100
38"	4"	1-5	3-1	6-3	5-0	3.4	24 1/2"	20"	4200



NOTES:

1. SEE APPLICABLE DETAIL FOR BEDDING AND BACKFILL REQUIREMENTS

DETAIL - CLEAN OUT
NOT TO SCALE

© 2020 ADS, INC.		X		INITIAL DATA FILE	UNO	UNO/ST	
ADVANCED DRAGAGE SYSTEMS, INC. (ADS) HAS PREPARED THIS DETAILED DESIGN BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DISPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT, NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL REPRESENTATIONS AND ARE NOT SPECIFIC TO THIS PROJECT. THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE DESIGN PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEET OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.		REV.		DESCRIPTION	BY	MM/DD/YY	CHK'D
		N-12		HDPD TRICHEN INSTALLATION (DRAWING STABILIZED SAND)			
		DRAWING NUMBER:		STD-101K		Advanced Dragage Systems, Inc.	
				4660 TRILUMEN BLVD HILLDALE, OHIO 43026		OSU THE OHIO STATE UNIVERSITY	

PROJECT #	2024.07
DATE:	AUGUST 12, 202
SHEET TITLE:	

SITE UTILITY DETAILS

SHEET: **C-5.3**



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A. ALL DISTURBED GREEN SPACES ON THE SITE SHALL BE RESTORED ACCORDING TO THE SEED BED PREPARATION SPECIFICATIONS BELOW AND BLANKETED OR MATTED AS SHOWN ON THE PLANS.

B. TEMPORARY OR PERMANENT STABILIZATION SHALL OCCUR IMMEDIATELY WHENEVER EARTH DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED ON ANY PORTION OF THE SITE. TEMPORARY STABILIZATION SHALL CONSIST OF THE FOLLOWING:

C. CONTRACTOR TO INSTALL TEMPORARY CONSTRUCTION ENTRANCES AS NECESSARY TO EXCAVATE AREAS AND HAIL SOILS ON-SITE. TRACKING OF DEBRIS ON SITE WILL NOT BE ALLOWED. ANY DEBRIS OUTSIDE OF THE PROJECT LIMITS MUST BE CLEANED IMMEDIATELY.

D. EROSION CONTROL BLANKETS AND TURF REINFORCEMENT MATS SHALL BE INSTALLED IMMEDIATELY. ANY MATS MANUFACTURED BY NORTH AMERICAN GREEN, METAL STAKES AND STAPLES ARE PROHIBITED.

E. CONTRACTOR SHALL PROVIDE ALL NECESSARY MAINTENANCE FOR THE SEDIMENT AND EROSION CONTROL, HEREFOR FOR THE DURATION OF THE PROJECT.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL STORMWATER POLLUTION PREVENTION PLAN (SWPPP) INSPECTIONS, LOGS, RECORDS, CORRECTIVE ACTION FORMS, SWPPP TRAINING LOGS, SWPPP TRAINING RECORDS, SWPPP TRAINING AGENTS, GRADING AND STABILIZATION ACTIVITIES LOGS, SWPPP TRAINING LOGS, AND DELEGATION OF AUTHORITY FORMS FOR THE DURATION OF THE PROJECT.

G. SWPPP SHALL BE PROVIDED TO THE OWNER. SWPPP TRAINING LOGS AND LOGS TO THE MT GROUP ONCE THE SITE HAS BEEN STABILIZED. THE CONTRACTOR SHALL MAINTAIN THESE DOCUMENTS FOR A PERIOD OF 3 YEARS FROM THE FINAL REMOVAL OF THE SITE.

H. FOLLOWING THE REMOVAL OF THE SILT FENCE, THE CONTRACTOR SHALL RESTORE THE SILT FENCE TRENCH WITH SOIL.

I. CONTRACTOR SHALL INITIATE STABILIZATION OF ALL DISTURBED AREAS WITHIN ONE CALENDAR DAY.

J. CONTRACTOR SHALL PROVIDE AND IMPLEMENT DEXTERATING PLAN IN ACCORDANCE WITH THE EROSION CONTROL SCHEDULE DATED 04-10-2024 PREPARED BY GEOCON PROFESSIONAL SERVICES, LLC.

K. SEED BED PREPARATION

L. ANY DEBRIS LARGER THAN 1" IN DIAMETER SHALL BE REMOVED FROM THE SEED BED.

M. DISK OR TILL TOPSOIL TO A DEPTH OF 3" AND REDUCE ALL SOIL PARTICLES TO NO LARGER THAN 2". THE SURFACE SHALL BE FREE OF WEEDS, STONES, ROCKS, BRICKS, CEMENT, CEMENT BLOCKS, CEMENT PIPES, AND OTHER DEBRIS.

N. THE AREA SHALL BE FINE GRADED.

O. THE SEED SHALL BE PLACED INTO THE SOIL, WITH A MACHINE THAT MECHANICALLY MIXES THE SEED IN DIRECT CONTACT WITH THE SOIL AND COVERS THE SEED WITH THE SOIL.

P. BROADCAST AND HYDROSEED WILL NOT BE ALLOWED.

Q. ANY EROSION SHALL BE COVERED WITH THE EROSION BLANKET RIGHT AFTER THE SEED HAS BEEN SOWN.

R. ANY SOIL AMENDMENTS NEEDED TO ACHIEVE A 90% HEALTHY STAND OF VEGETATION WILL BE ADDED TO THE SEED MIXTURE AT THE DISCRETION OF THE OWNER. THE STAND OF VEGETATION WILL NEED TO BE ACCEPTED BY THE ENGINEER.

S. THE SEED MIX SHALL BE KENTUCKY BLUEGRASS (RYL04)AUGRA, REVENGE BLUEGRASS (RYL04)B, PERENNIAL RYEGRASS (RYL04)C, ANNUAL RYE (RYL04)D AND GREENING REED FESCUE 40 LBS/AERE TOTAL.

	EXISTING SPOT GRADE
	EXISTING CONTOUR LINE
	PROPOSED CONTOUR LINE
	OVERLAND FLOW ARROW
	100 YEAR OVERLAND FLOW ROUTE
	EXISTING CATCH BASIN / INLET
	EXISTING BEEHIVE CATCH BASIN
	EXISTING MANHOLE
	PROPOSED INLET
	SILT FENCE
	FLEXLOC CATCH-IT INLET PROTECTION
	FINE GRADE, FERTILIZER, AND SEED. INSTALL D5'S EROSION CONTROL BLANKET WITH 6" BIO-STAKES AS MANUFACTURED BY NORTH AMERICAN GREEN FOLLLOW MANUFACTURERS' INSTALLATION INSTRUCTIONS.
	TEMPORARY CONCRETE WASHOUT FACILITY
	SILT FENCE INLET PROTECTION WITH STONE COLLAR

form follows learningsm



DLA
ARCHITECTS
ttd

www.dla-ttd.com

Two Pierce Place Suite 1300 Itasca 60143 847.742.4063

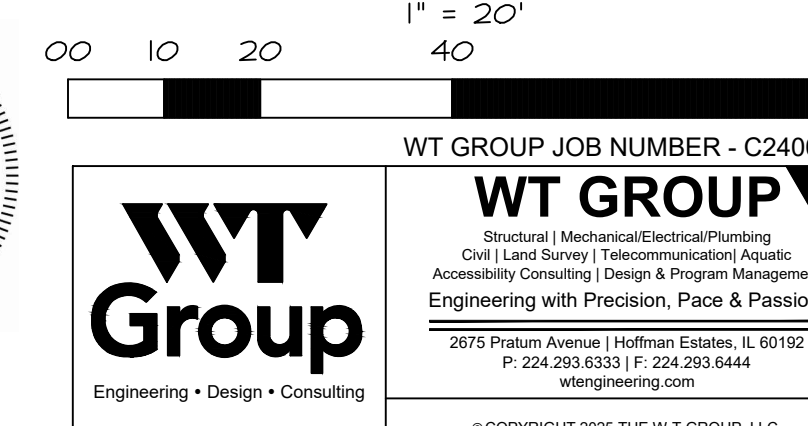
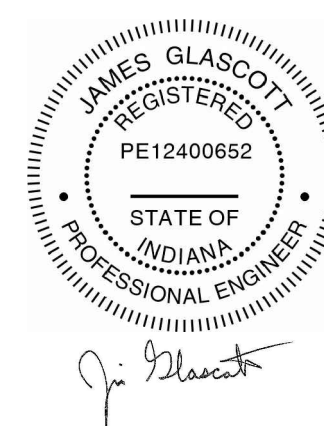
SCHOOL TOWN OF MUNSTER
2025 NEW TENNIS FACILITY
MUNSTER HIGH SCHOOL
8823 COLUMBIA AVE. MUNSTER, IN 46321

[illegible]

PROJECT #	2024.07
DATE:	AUGUST 12, 2025
SHEET TITLE:	

72 STORMWATER
POLLUTION
PREVENTION
PLAN

SHEET:
C-6.1


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Civil | Law

Accessibility Engineering

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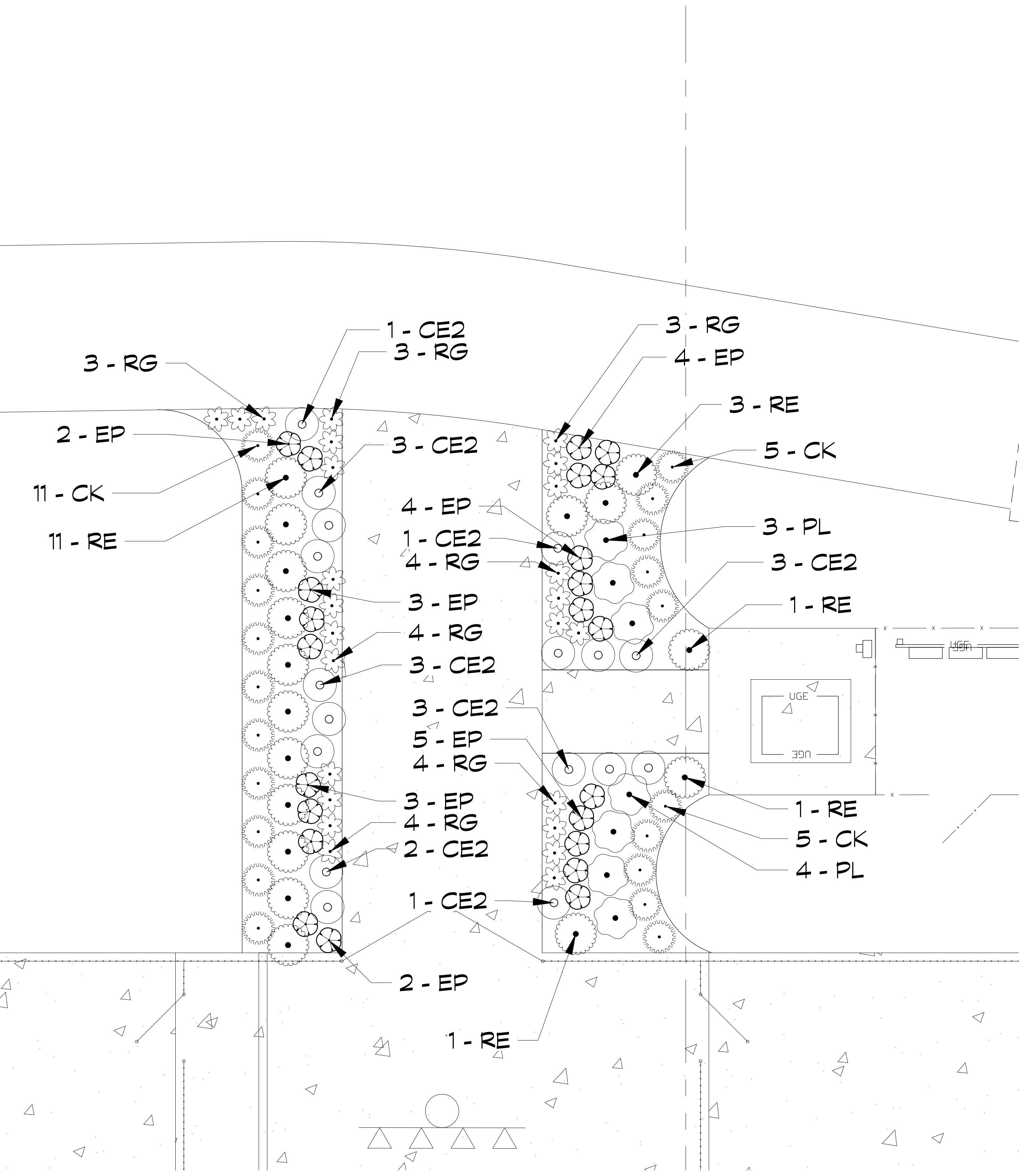
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GENERAL NOTES - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE FOLLOWING: - INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS," LATEST EDITION. - AMERICAN WATER WORKS ASSOCIATION STANDARDS. - INDIANA STORM WATER QUALITY MANUAL, CURRENT EDITION. - BUILDING CODES AND ORDINANCES OF THE LOCAL GOVERNING AUTHORITIES. - UNITED STATES DEPARTMENT OF LABOR OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) REGULATIONS, 29 CFR PART 1926, "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION." - INDIANA DRAINAGE LAW. - AMERICANS WITH DISABILITIES ACT. - INDIANA ENVIRONMENTAL PROTECTION AGENCY REQUIREMENTS. - TITLE 320, 325, 325.1 AND 330 OF THE INDIANA ADMINISTRATIVE CODE. - ALL REQUIRED PERMITS FROM THE APPROPRIATE GOVERNING AGENCY(S) SHALL BE OBTAINED FOR CONSTRUCTION ALONG OR ACROSS EXISTING STREETS OR HIGHWAYS. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE PROPER BRACING, SHEETING, SHORING AND OTHER REQUIRED PROTECTION OF ALL ROADWAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS AND ASSOCIATED STRUCTURES AND SHALL MAKE ALL NECESSARY REPAIRS AT HIS EXPENSE AND TO THE SATISFACTION OF THE GOVERNING AGENCY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ADEQUATE SIGNAGE AND TRAFFIC CONTROL DEVICES TO INFORM AND PROTECT THE PUBLIC. - CONTRACTOR SHALL NOTIFY THE LOCAL ENGINEERING OR PUBLIC WORKS DEPARTMENT AND/OR OTHER GOVERNING AUTHORITY(IES) 48 HOURS PRIOR TO COMMENCING CONSTRUCTION ON EACH MAJOR CATEGORY OF WORK, INCLUDING BUT NOT LIMITED TO, ANY PUBLIC IMPROVEMENTS, ROADWAY CLOSURES OR UTILITY INSTALLATIONS. 12 HOUR NOTICE SHALL BE GIVEN FOR ANY WORK THAT REQUIRES INSPECTION AND TESTING SUCH AS SANITARY SEWER OR WATER MAIN INSTALLATION. - CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES (GAS, ELECTRIC, TELEPHONE, CABLE, ETC.) AND THE LOCAL MUNICIPALITY TO DETERMINE THE LOCATION OF UNDERGROUND UTILITIES PRIOR TO THE COMMENCEMENT OF CONSTRUCTION IN ORDER TO AVOID POTENTIAL CONFLICTS. CONTRACTOR SHALL CALL THE JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS (JULIIE) AT 1-800-942-0123 OR BY DIALING 811. IT IS ULTIMATELY THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER INDICATED ON THE PLANS OR NOT AND TO HAVE THESE UTILITIES STAKED PRIOR TO CONSTRUCTION. - CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL PRIVATE AND PUBLIC UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT HIS EXPENSE AND TO THE SATISFACTION OF THE UTILITY OWNER. - ALL EASEMENTS FOR EXISTING UTILITIES, BOTH PUBLIC AND PRIVATE, AND UTILITIES WITHIN PUBLIC RIGHTS-OF-WAY ARE SHOWN ON THE PLANS PREPARED BY THE ENGINEER ACCORDING TO INFORMATION AVAILABLE FROM PUBLIC RECORDS OR VISIBLE FIELD MARKERS. CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR DETERMINING THE EXACT LOCATION IN THE FIELD OF THESE UTILITY LINES AND FOR THEIR PROTECTION FROM DAMAGE DUE TO CONSTRUCTION OPERATIONS. IF EXISTING UTILITY LINES ARE ENCOUNTERED PRIOR TO CONSTRUCTION OR LOCATE IN LOCATION WITH THE PROPOSED CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER SO THE CONFLICT MAY BE RESOLVED. - ALL UTILITY CONNECTIONS TO EXISTING LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE RULES AND REGULATIONS AND TO THE SATISFACTION OF THE APPLICABLE UTILITY OWNERS. - CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, COORDINATES AND ELEVATIONS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES SO THE CONFLICT MAY BE RESOLVED. - ALL PROPERTY MARKERS AND REFERENCE MARKERS SHALL BE CAREFULLY PRESERVED DURING CONSTRUCTION UNTIL THEIR LOCATION HAS BEEN WITNESSED OR OTHERWISE TIED IN BY AN AUTHORIZED AGENT OR PROFESSIONALLY LICENSED SURVEYOR. - THE SAFE AND ORDERLY PASSAGE OF TRAFFIC AND PEDESTRIANS SHALL BE PROVIDED WHERE CONSTRUCTION OPERATIONS ABUT PUBLIC THROUGH-FARES AND ADJACENT PROPERTY. - ALL AREAS DISTURBED BY THE GENERAL CONTRACTOR OR SUB-CONTRACTORS SHALL BE RETURNED TO THE ORIGINAL CONDITION OR BETTER, EXCEPT WHERE PROPOSED CONSTRUCTION IS INDICATED ON THE PLANS. - NO BURNING OR INCINERATION OF RUBBISH WILL BE PERMITTED ON SITE. - PRIOR TO INITIAL ACCEPTANCE BY THE OWNER(S) AND/OR GOVERNING AUTHORITY, ALL WORK SHALL BE INSPECTED AND APPROVED BY THE OWNER AND MUNICIPALITY ENGINEER OR HIS REPRESENTATIVE(S). THE CONTRACTOR SHALL GUARANTEE HIS WORK FOR A PERIOD OF 18 (EIGHTEEN) MONTHS FROM THE DATE OF SUBSTANTIAL COMPLETION AND BE RESPONSIBLE FOR ANY DAMAGE TO THE STREETS OR ROADWAYS OR WORKMANSHIP OF THIS WORK DURING THAT PERIOD AND UNTIL FINAL ACCEPTANCE IS MADE. - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SAFE AND ADEQUATE WORKING CONDITIONS THROUGHOUT THE DURATION OF CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. - CONTRACTOR SHALL KEEP THE PUBLIC STREET PAVEMENTS CLEAN OF DIRT AND DEBRIS AND, WHEN NECESSARY, CLEAN PAVEMENTS AT THE END OF EACH WORKING DAY. - ALL CONSTRUCTION STAKING, SCHEDULING AND PAYMENT IS THE RESPONSIBILITY OF THE CONTRACTOR. - THREE (3) ORIGINAL COPIES OF ALL SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR (BUT NOT LIMITED TO) THE FOLLOWING ITEMS: - ASPHALT PAVEMENT MIX DESIGN - CONCRETE MIX DESIGN - GRANULAR MATERIAL GRADATION - PRECAST CONCRETE STRUCTURES (MANHOLES, INLETS, CATCH BASINS, VAULTS, ETC.) - WATER MAIN MATERIALS (VALVES, FIRE HYDRANTS, ETC.) - AFTER COMPLETION OF THE PROPOSED IMPROVEMENTS AND WHEN REQUIRED BY THE GOVERNING AUTHORITY(IES), CONTRACTOR SHALL PROVIDE THE OWNER AND ENGINEER WITH AS-BUILT AND/OR RECORD DRAWINGS, SIGNED AND SEALED BY A PROFESSIONALLY LICENSED ENGINEER OR SURVEYOR AND SHALL INCLUDE AT A MINIMUM (WHERE APPLICABLE TO THE SCOPE OF WORK) THE FOLLOWING ITEMS: - TOPOGRAPHY AND SPOT GRADE ELEVATIONS OF ALL PROPOSED PERMANENT SITE FEATURES INCLUDING ANY STORM WATER FACILITIES OR MODIFICATIONS TO EXISTING STORM WATER FACILITIES. - HORIZONTAL AND VERTICAL LOCATION AND ALIGNMENT OF ALL PROPOSED ROADWAYS, PARKING LOTS, UTILITIES, BUILDINGS OR OTHER PERMANENT SITE FEATURES. - RIM AND INVERT AND/OR TOP OF PIPE ELEVATIONS FOR ALL PROPOSED UTILITIES. - AS-BUILT AND/OR RECORD DRAWINGS INFORMATION SHALL BE SHOWN ON THE APPROVED ENGINEERING PLANS ISSUED FOR CONSTRUCTION AND ALL DEVIATIONS FROM THESE APPROVED PLANS SHALL BE SHOWN BY MEANS OF STRIKING THROUGH THE PROPOSED INFORMATION AND CLEARLY INDICATING THE AS-BUILT LOCATIONS AND ELEVATIONS ON THE APPLICABLE PLAN SHEET.	SITE GRADING AND PAVING - ALL SITE WORK, GRADING, AND PAVING OPERATIONS WITHIN THE LIMITS OF THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS," LATEST EDITION (INDOT STANDARD SPECIFICATIONS), ANY SPECIAL PROVISIONS, THE NOTES IN THE PLANS, AND IN ACCORDANCE WITH THE CODES AND ORDINANCES OF THE GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE. - EARTH EXCAVATION SHALL INCLUDE CLEARING, STRIPPING AND STOCKPILING TOPSOIL, REMOVING UNSUITABLE MATERIALS, CONSTRUCTION OF EMBANKMENTS, NON-STRUCTURAL FILLS, FINAL SHAPING AND TRIMMING TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE PLANS. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE "STANDARD SPECIFICATIONS." ALL UNSUITABLE OR EXCESSIVE MATERIAL SHALL BE DISPOSED OF OFF-SITE OR AS DIRECTED BY THE PROJECT REPRESENTATIVE IN THE FIELD. - EXCAVATED TOPSOIL SHALL BE STOCKPILED ON THE SITE IN AREAS DESIGNATED BY THE PROJECT ENGINEER UNTIL SUCH TIME THAT THIS TOPSOIL CAN BE USED FOR FINAL GRADING, UNLESS OTHERWISE NOTED ON THE PLANS. A MINIMUM OF 6" TOPSOIL RE-Spread AND SEEDING FOR ALL DISTURBED AREAS IS REQUIRED. - THE SOILS INVESTIGATION REPORT FOR THE SITE AND ALL APPENDIX A THERETO ARE SUPPORTING DOCUMENTS FOR THIS PROJECT. THE RECOMMENDATIONS AS STATED IN SAID REPORT ARE HEREBY INCORPORATED INTO THESE CONSTRUCTION NOTES BY REFERENCE AND SHALL BE FOLLOWED BY ALL CONTRACTORS. THE GRADING OPERATIONS ARE TO BE CLOSELY SUPERVISED AND INSPECTED, PARTICULARLY DURING THE REMOVAL OF STABIL AND ALE MATERIALS AND THE CONSTRUCTION OF EMBANKMENTS OR BUILDING PADS, BY A SOILS ENGINEER OR HIS REPRESENTATIVE. FURTHER CONSTRUCTION OPERATIONS WILL NOT BE PERMITTED UNTIL THE SOILS ENGINEER ISSUES A WRITTEN STATEMENT THAT THE AREA IN QUESTION HAS BEEN SATISFACTORILY PREPARED AND IS READY FOR CONSTRUCTION. - ALL TESTING, INSPECTION AND SUPERVISION OF SOIL QUALITY, UNSUITABLE SOIL REMOVAL AND ITS REPLACEMENT AND OTHER SOILS RELATED OPERATIONS SHALL BE ENTIRELY THE RESPONSIBILITY OF THE CONTRACTOR. - THE CONTRACTOR SHALL USE CARE IN GRADING NEAR TREES, SHRUBS, AND BUSHES WHICH ARE NOT NOTED TO BE REMOVED SO AS NOT TO CAUSE INJURY TO ROOTS OR TRUNKS. - THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO THESE EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT HIS OWN EXPENSE. - REMOVED DRIVEWAY PAVEMENT, SIDEWALK, CURBS, TREES AND STUMPS SHALL BE DISPOSED OF LEGALLY OFF-SITE AT LOCATIONS DETERMINED BY THE CONTRACTOR. - ON AND OFF SITE PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, AND, IF DAMAGED, SHALL BE REPLACED PROMPTLY TO MEET STATE AND LOCAL STANDARD SPECIFICATIONS IN MATERIALS AND WORKMANSHIP. - PROPOSED ELEVATIONS INDICATE FINISHED GRADE CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THE THICKNESS OF THE PROPOSED PAVING (ROADS, WALKS, DRIVE, ETC.) SECTION OR TOPSOIL AS INDICATED ON THE PLANS. - CONTRACTOR SHALL PROVIDE SMOOTH VERTICAL CURVES THROUGH THE HIGH AND LOW POINTS INDICATED BY SPOT ELEVATIONS ON THE PLANS. THE CONTRACTOR SHALL PROVIDE UNIFORM SLOPES BETWEEN NEW AND EXISTING GRADES AND AVOID ANY RIDGES AND/OR DEPRESSIONS. - ALL PROPOSED GRADING, PAVEMENT, APRONS, CURBS, WALKS, ETC., SHALL MATCH EXISTING GRADES FLUSH. - ALL EXISTING AND PROPOSED TOP OF FRAME ELEVATIONS FOR STORM, SANITARY, WATER AND OTHER UTILITY STRUCTURES SHALL BE ADJUSTED TO MEET FINISHED GRADE WITHIN THE PROJECT LIMITS. - ALL CONCRETE POURED SHALL BE: - MINIMUM COMPRESSIVE STRENGTH: 3500 P.S.I. AT 14 DAYS (PER INDOT) 4500 P.S.I. AT 28 DAYS (PER A.C.I.) - MAX WATER-CEMENTITIOUS MATERIALS RATIO: 0.44 (AIR-ENTRAINED) - AIR CONTENT: 6%, +/- 1.5% AT POINT OF DELIVERY FOR EXPOSED CONCRETE - WHEN FIBER MESH REINFORCEMENT IS SPECIFIED, IT SHALL CONSIST OF FIBRILLATED POLYPROPYLENE FIBERS ENGINEERED AND DESIGNED FOR USE IN CONCRETE PAVEMENT, COMPLYING WITH ASTM C 1116, TYPE III, 1 TO 3 INCHES LONG. FIBERS SHALL BE UNIFORMLY DISPERSED IN THE CONCRETE MIXTURE AT THE MANUFACTURER'S RECOMMENDED RATE, BUT NOT LESS THAN 15 LBS / CU. YD. - THE GRADING AND CONSTRUCTION OF THE PROPOSED PAVEMENT IMPROVEMENTS SHALL NOT CAUSE FLOODING OF STORM WATER. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE AND MATCH EXISTING GRADES FLUSH. - CONTRACTOR SHALL ENSURE POSITIVE SITE DRAINAGE AT THE END OF EACH WORKING DAY DURING CONSTRUCTION OPERATIONS. FAILURE TO PROVIDE ADEQUATE DRAINAGE WILL PRECLUDE THE CONTRACTOR FROM ANY POSSIBLE COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIALS CREATED AS A RESULT. - DRIVEWAYS SHALL BE CONSTRUCTED SO AS NOT TO INFERE THE SURFACE DRAINAGE SYSTEM. - TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARDS AND SHALL BE INSTALLED AND PROVIDED WHENEVER CONSTRUCTION FOR UTILITIES ARE WITHIN STREET AREAS. APPLICABLE ORDINANCES OF THE MUNICIPALITY, COUNTY OR STATE SHALL ALSO GOVERN THE TRAFFIC CONTROL REQUIREMENTS. - EXISTING PAVEMENT AGGREGATE BASE COURSE SHALL NOT BE RE-USED AS AGGREGATE BASE COURSE FOR THE NEW PAVEMENT SECTION.	STORM SEWERS - ALL STORM SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE INDIANA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS," LATEST EDITION (INDOT STANDARD SPECIFICATIONS), ANY SPECIAL PROVISIONS, THE NOTES ON THE PLANS, AND IN ACCORDANCE WITH THE CODES AND ORDINANCES OF THE GOVERNING AUTHORITIES. IN CASE OF CONFLICT, THE MORE STRINGENT CODE SHALL TAKE PRECEDENCE. - ALL STORM SEWER PIPE AND STRUCTURES SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS." - ALL PRECAST CONCRETE STRUCTURES SHALL BE REINFORCED AND DESIGNED FOR 15-20 LADING UNLESS OTHERWISE NOTED. - ALL RCP STORM SEWER PIPE 12" IN DIAMETER AND LARGER SHALL BE REINFORCED CONCRETE PIPE, CLASS IV, PER ASTM C-76 WITH FLEXIBLE (O-RING) GASKET JOINTS IN CONFORMANCE WITH ASTM C-449 AND SECTION 9-1.09 OF THE "STANDARD SPECIFICATIONS." ALL 12" DIAMETER RCP STORM SEWER PIPE SHALL BE REINFORCED CONCRETE PIPE, CLASS V. - ALL HDPE STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE PIPE PER ASTM F-2306 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D-3212, UNLESS OTHERWISE NOTED. - ALL PVC STORM SEWER PIPE SHALL BE POLYVINYL CHLORIDE SDR 26 PIPE PER ASTM D-3034 WITH WATERTIGHT JOINTS CONFORMING TO ASTM D-3212, UNLESS OTHERWISE NOTED. - ALL STORM SEWER TRENCH EXCAVATIONS AND PIPE FOUNDATION, BEDDING AND HANGING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE "STANDARD SPEC
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PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SPACING	QTY
GRASSES				
	CK	Calamagrostis x acutiflora 'Karl Foerster' / Karl Foerster Feather Reed Grass	24" o.c.	21
	CE2	Cenchrus alopecuroides 'Hameln' / Hameln Fountain Grass	24" o.c.	17
PERENNIALS				
	EP	Echinacea purpurea 'Pica Bella' / Pica Bella Coneflower	18" o.c.	23
	PL	Perovskia atriplicifolia 'Denim 'n Lace' / Denim 'n Lace Russian Sage	30" o.c.	7
	RE	Rosa x 'ChewPatout' / Osa Easy® Urban Legend® Rose	30" o.c.	17
	RG	Rudbeckia fulgida sullivanii 'Goldsturm' / Goldsturm Coneflower	18" o.c.	25



1 PLANTING PLAN
SCALE: 1/4" = 1'



PLANTING NOTES

- CODE DESCRIPTION**
- GRADES SHALL MEET ALL EXISTING PERIMETER WALKS TO REMAIN.
 - TREES: SET TOP OF TREE ROOT BALL SO THAT AFTER SOIL SETTLEMENT, MAIN ORDER ROOTS SHALL BE 2" ABOVE THE TOP OF SURROUNDING GRADE. SUPPORT APPURTENANCES TO BE USED ONLY IF TREE FAILS TO REMAIN PLUMB. IF DIRECTED BY LANDSCAPE ARCHITECT, PRUNE TREES AND SHRUBS AFTER PLANTING. RETAIN NATURAL CHARACTER AND GENERAL SHAPE OF TREE OR SHRUB. REMOVE ENOUGH INTERIOR BRANCHES TO REDUCE FOLIAGE BY 1/3. NEVER CUT A LEADER SET ALL PLANT MATERIAL PLUMB IN PLANTING PIT. MAINTAIN PLUMB CONDITION THROUGHOUT GUARANTEE PERIOD.
 - PERENNIALS: REMOVE PLASTIC PLATING CONTAINER BEFORE PLANTING BEING CAREFUL TO KEEP THE ROOT SYSTEM INTACT. TRIANGULATE PERENNIALS IN MASS PLANTINGS UNLESS SPECIFIED. SEE PLANT LIST FOR CORRECT SPACING. SET ROWS OF PERENNIALS SO THAT AFTER SETTLEMENT OF SOIL AROUND BALL, THE TOP IS 1" ABOVE THE ADJACENT FINISHED GRADE OF SOIL.
 - REMOVE PLASTIC PLATING CONTAINER BEFORE PLANTING BEING CAREFUL TO KEEP THE ROOT SYSTEM INTACT. PLANT PRAIRIE GRASS IN MASS PLANTINGS, SQUARE, ON CENTER SPACING EXCEPT WHERE SHOWN OTHERWISE ON THE DRAWINGS. SEE PLANT LIST FOR CORRECT SPACING.
 - PROVIDE ALL SHADE TREES AS SPECIMEN QUALITY, WELL MATCHED, WELL-SHAPED, LIMBED UP 6'-0" MIN. ABOVE GROUND.
 - REMOVE ALL SHIPPING MATERIALS AND CONTAINERS BEFORE PLANTING.
 - ALL EXISTING AND PROPOSED TREES SHALL HAVE A 3" LAYER OF TRIPLE SHREDDED PREMIUM HARDWOOD BARK MULCH RING.
 - SIZES SHOWN ARE MINIMUM REQUIRED SIZE.
 - IF SIZE REQUIRED IS NOT AVAILABLE, CONTRACTOR MAY PROVIDE LARGER MATERIAL WITH THE ACCEPTANCE OF THE LANDSCAPE ARCHITECT.
 - IF LARGER SIZES ARE ACCEPTED, LARGER COMMENSURATE ROOT BALLS SHALL BE DUG TO ENSURE PLANT SUCCESS.
 - ALL SPRING DIG ONLY TREES WHICH CANNOT BE DUG IN SPRING SHALL BE 'PRE DUG' MATERIAL OR SHALL BE STAGE DUG. ALL HELD MATERIALS SHALL BE MAINTAINED, INCLUDING WATERING.
 - QUANTITIES ARE INCLUDED FOR CONVENIENCE ONLY. IN THE EVENT THAT DISCREPANCIES OCCUR, THE ACTUAL PLAN DESIGNATIONS AS DRAWN ON THE DRAWINGS SHALL GOVERN.
 - MULCH ALL PLANTING BEDS IN THEIR ENTIRETY AFTER PLANTING WITH 3" OF PREMIUM TRIPLE SHREDDED HARDWOOD BARK MULCH.
 - ALL SOD SHALL BE A KENTUCKY BLENDED SOD OF 3 VARIETIES OF FESCUE.
 - SEE CIVIL DRAWINGS FOR ALL GRADING.

GENERAL NOTES

DESCRIPTION

PRIOR TO COMMENCING ANY WORK, CONTRACTOR SHALL CONTACT J.U.L.I.E. (811) FOR UNDERGROUND UTILITY LOCATING.

CONTRACTOR SHALL OBTAIN ALL NECESSARY LOCAL PERMITS AND PERMISSIONS TO INSTALL THE PROPOSED IMPROVEMENTS

ALL LANDSCAPE MATERIALS SHALL BE INSTALLED IN ACCORDANCE WITH THE MUNICIPAL LANDSCAPING CODES AND ZONING ORDINANCES.

ALL PLANT MATERIALS (EXCEPT FOR GROUNDCOVER, ANNUALS, AND PERENNIALS) SHALL BE BALLED AND BURLAPPED STOCK AND MEET CURRENT STANDARDS OF THE AMERICAN ASSOCIATION OF NURSERYMENS STANDARD FOR NURSERY STOCK (ANSI 260.1:1986) OR PLANT MATERIALS MUST BE SUPPLIED WITHIN A 150 MILE RADIUS OF PROJECT SITE WITHIN NORTHEAST ILLINOIS. CONTRACTOR MAY SUBSTITUTE CONTAINER STOCK FOR SHRUBS IF SIZES ARE EQUAL TO SPECIFIED B&B STOCK, WITH THE APPROVAL OF THE LANDSCAPE ARCHITECT.

IF SPECIFIED PLANTS ARE NOT AVAILABLE AT THE TIME OF ORDERING, PLANTS WITH SIMILAR WHOLESAL VALUE AND LANDSCAPE CHARACTERISTICS MAY BE SUBSTITUTED UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT AND VILLAGE STAFF.

TREE AND SHRUB BACKFILL MIXTURE SHALL BE 2 PARTS EXIST. NATIVE TOPSOIL AND 1 PART SPHAGNUM PEAT MOSS W/ DECOMPOSED MANURE

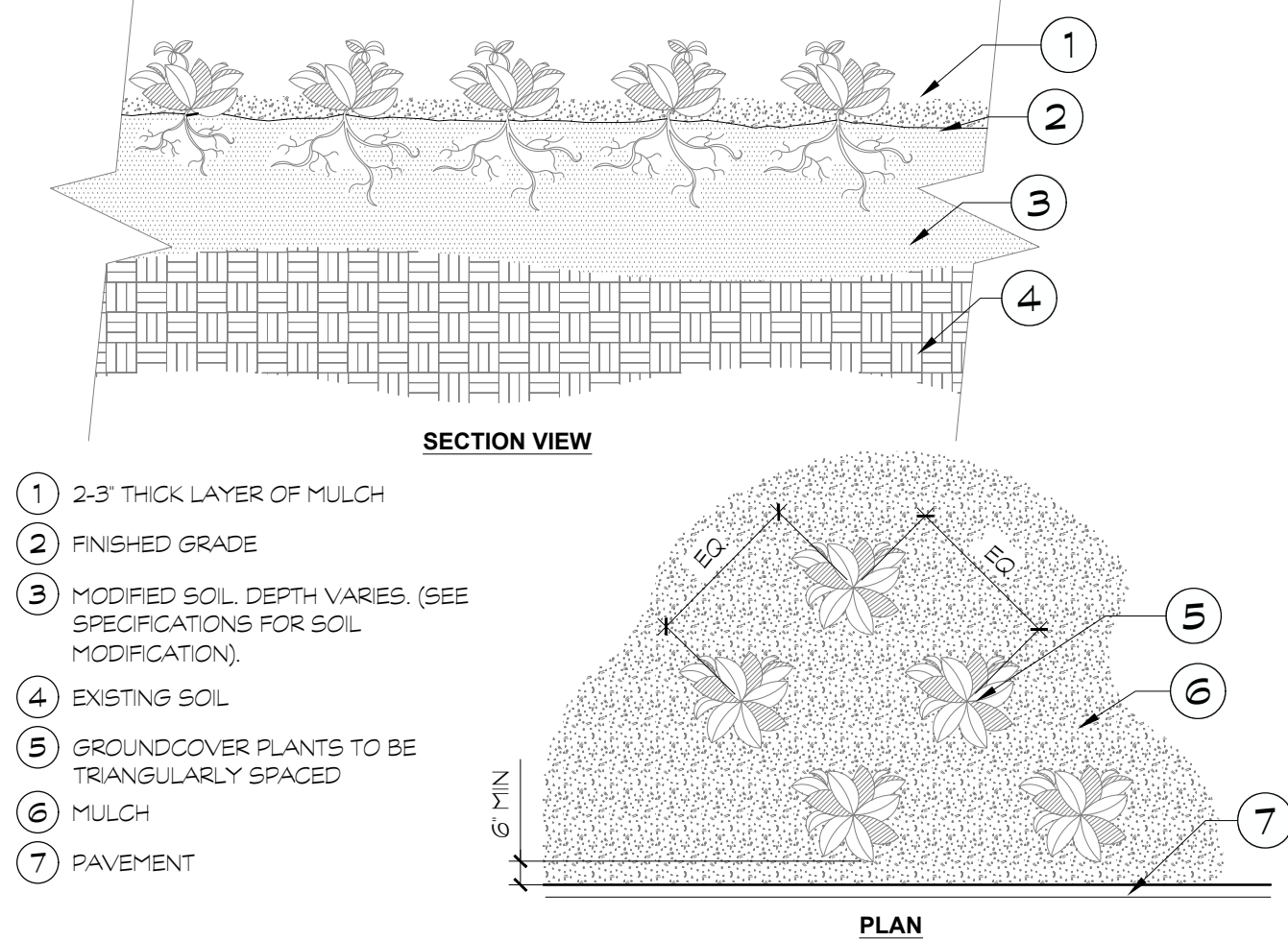
SOIL IN GROUNDCOVER BEDS SHALL BE AMENDED USING 2 INCHES OF MUSHROOM COMPOST INCORPORATED INTO THE TOP 4 INCHES OF SOIL.

ALL DISTURBED GREEN SPACES ON THE SITE SHALL BE RESTORED ACCORDING TO THE SEED BED PREPARATION CIVIL SWPPP SPECIFICATIONS AND BLANKETED OR MATTED AS SHOWN ON CIVIL PLANS. SEE CIVIL PLANS.

ALL SHRUB BEDS AND INDIVIDUAL TREE PLANTINGS, UNLESS OTHERWISE NOTED, SHALL RECEIVE A 4 INCH LAYER OF SHREDDED HARDWOOD MULCH. ALL GROUNDCOVER, ANNUAL AND PERENNIAL BEDS SHALL RECEIVE A 2 INCH LAYER OF THE SAME MULCH MATERIAL. COSTS FOR MULCH SHALL BE CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF PLANTINGS.

NURSERY TAGS (SPECIES, SIZE) FOR ALL SHADE TREES SHALL REMAIN ATTACHED TO TREES UNTIL FINAL APPROVAL FROM MUNICIPALITY.

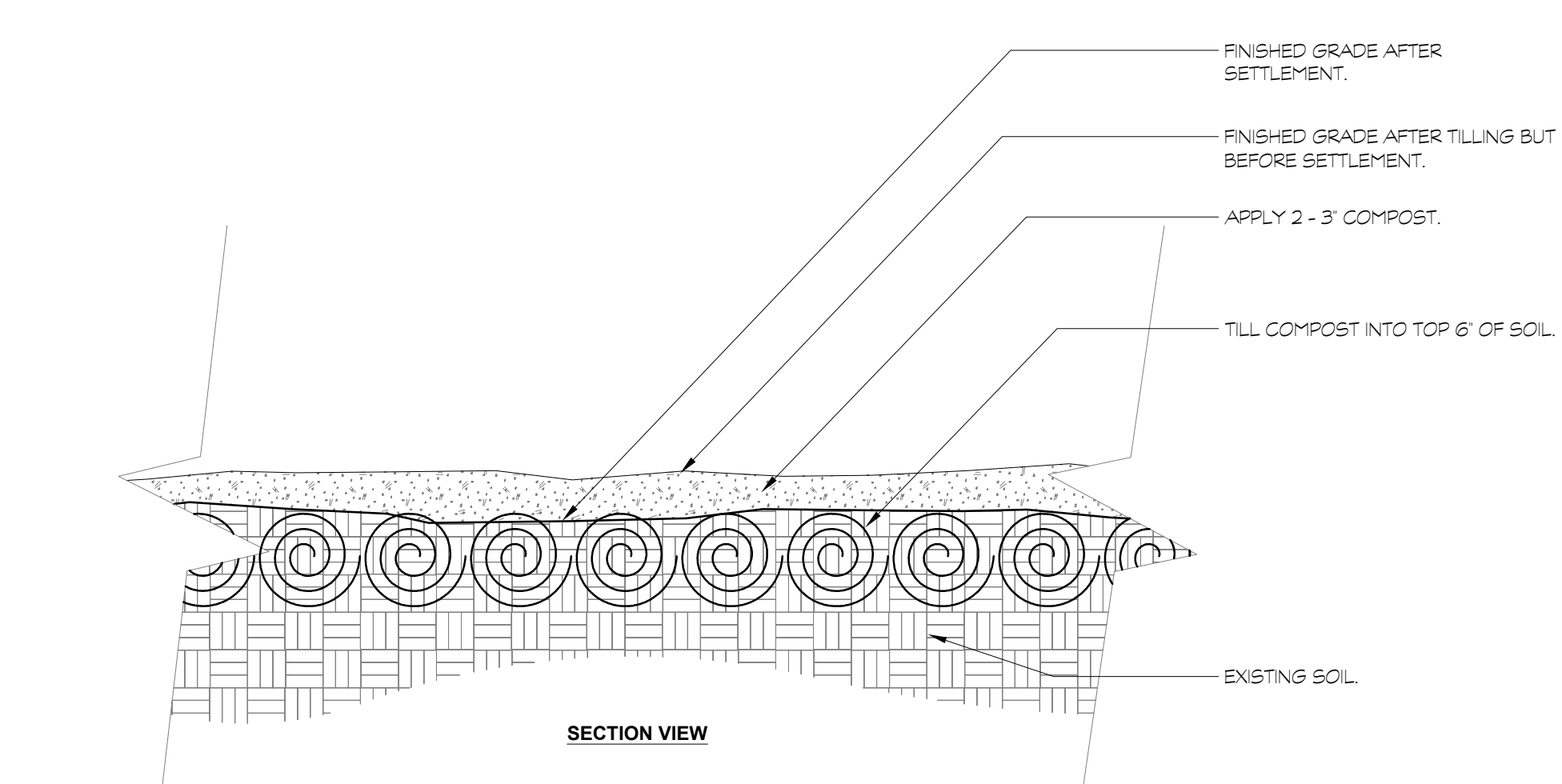
THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE OWNER A BONDED WRITTEN ONE-YEAR WARRANTY AGREEMENT (BEGINNING ON THE OWNERS POSSESSION DATE). THIS AGREEMENT SHALL COVER MAINTENANCE, REPAIR, AND REPLACEMENT OF ALL DEAD OR DAMAGED LANDSCAPING TO PRESERVE THE SAME QUANTITY AND QUALITY AS INITIALLY APPROVED.



NOTES:
1- SEE PLANTING LEGEND FOR GROUNDCOVER SPECIES, SIZE, AND SPACING DIMENSION.
2- SHALL ROOTS (1/4" OR LESS) THAT GROW AROUND, UP, OR DOWN THE ROOT BALL PERIPHERY ARE CONSIDERED A NORMAL CONDITION IN CONTAINER PRODUCTION AND ARE ACCEPTABLE HOWEVER THEY SHOULD BE ELIMINATED AT THE TIME OF PLANTING. ROOTS ON THE PERIPHERY CAN BE REMOVED AT THE TIME OF PLANTING. (SEE ROOT BALL SHAVING CONTAINER DETAIL.)
3- SETTLE SOIL AROUND ROOT BALL OF EACH GROUNDCOVER PRIOR TO MULCHING.

1 GROUNDCOVER
3/4" ± 1'-0"

FX-PLNT-FX-GROU-01



NOTES:
1- SEE PLANTING SOL SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

2 MODIFIED EXISTING SOIL - COMPACTED SURFACE SOIL
3/4" ± 1'-0"

FX-PLNT-FX-PREP-SOL-01



SCHOOL TOWN OF MUNSTER
2025 NEW TENNIS FACILITY
MUNSTER HIGH SCHOOL
8823 COLUMBIA AVE. MUNSTER, IN 46321

DATE	DESCRIPTION
PROJECT #	2024.073
DATE	AUGUST 12, 2025
SHEET TITLE	LANDSCAPE PLAN
SHEET	L1

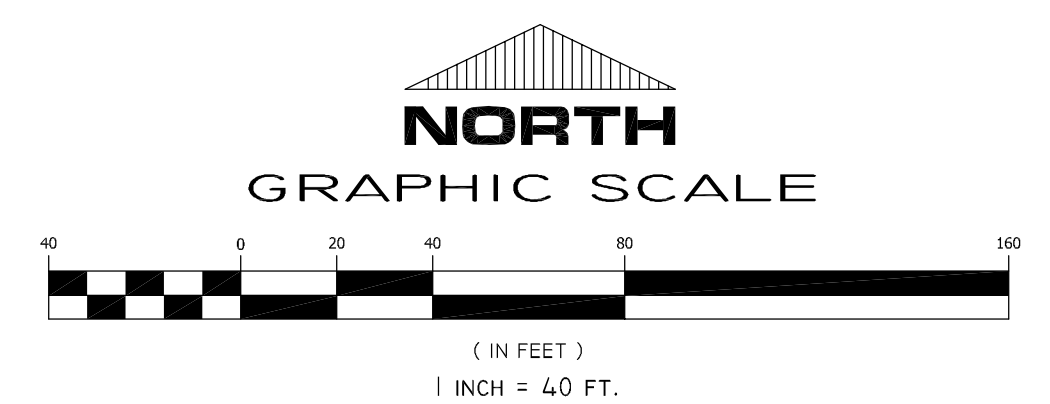
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Additional Survey Related Notes:

1. Dimensions on this plat are expressed in feet and decimal parts thereof, and are measured values, unless otherwise noted.
2. This survey does not address the existence, if any, of items that would require an interpretation by the surveyor, (i.e. compliance with all zoning requirements) existence of items beyond the qualification of survey (i.e. wetlands, hazardous materials) and items not readily visible during a reasonable inspection of site (past cemeteries, landfills, and mineral rights).
3. Parcels identified by title description or record references as per IAC 1-12-13(11) are obtained from County Auditor's Office and/or Recorder's Office and are not certified. The information may or may not reference the most current deed or record or the most current status or title for that parcel.



- LEGEND:**
- MANHOLE
 - CATCH BASIN/INLET
 - PIPE INLET/OUTLET
 - DRAIN
 - BEEHIVE CATCH BASIN
 - PIPELINE MARKER
 - POWER POLE
 - POWER POLE w/ LIGHT
 - POWER POLE / ANCHOR
 - LIGHT POLE
 - GAS VALVE
 - B-BOX
 - FIRE HYDRANT
 - WATER VALVE
 - WATER SPOUT
 - SIGN
 - FIBER OPTIC MARKER
 - TRAFFIC LIGHT POLE
 - TRAFFIC MANHOLE
 - COMMUNICATIONS VAULT
 - ELECTRIC TRANSFORMER
 - ELECTRIC PANEL
 - ELECTRIC VAULT
 - ELECTRIC JUNCTION BOX
 - ELECTRIC METER
 - VENT PIPE
 - IRRIGATION CONTROL VALVE
 - SOIL BORING
 - PG
 - GAS LINE-FLAGGED
 - STEEL BOLLARD
 - GAS METER
 - FLAG POLE
 - CLEAN OUT
 - EXISTING TREE w/ TRUNK DIA.
 - EXST. CONTOUR
 - EXISTING SPOT ELEVATION
 - OVERHEAD LINES
 - SANITARY LINE
 - STORM SEWER LINE
 - WATER MAIN LINE
 - GAS LINE-FLAGGED
 - UNDERGROUND-ELECTRIC LINE
 - UNDERGROUND TELE. LINE

STATE OF INDIANA)
COUNTY OF LAKE)

THIS IS NOT A BOUNDARY SURVEY
In accordance with IAC 1-12-12(f): This drawing is not intended to be represented as a retracement or original boundary survey, a route survey, or a Surveyor Location Report.

DATE OF SURVEY: MAY 20, 2025

TORRENGA SURVEYING, LLC.

JOHN STUART ALLEN - Registered Land Surveyor No. LS29900011



TORRENGA SURVEYING, LLC

PROFESSIONAL LAND SURVEYORS

907 RIDGE ROAD, MUNSTER, INDIANA 46321

TEL. NO.: (219) 836-8918

WEBSITE: WWW.TORRENGA.COM

TOPOGRAPHICAL SURVEY

WILBUR WRIGHT MIDDLE SCHOOL

8520-8830 COLUMBIA AVENUE

DATE: JUNE 25, 2025

REVISIONS:

CLIENT: School Town of Munster

JOB NO: 2025-0109

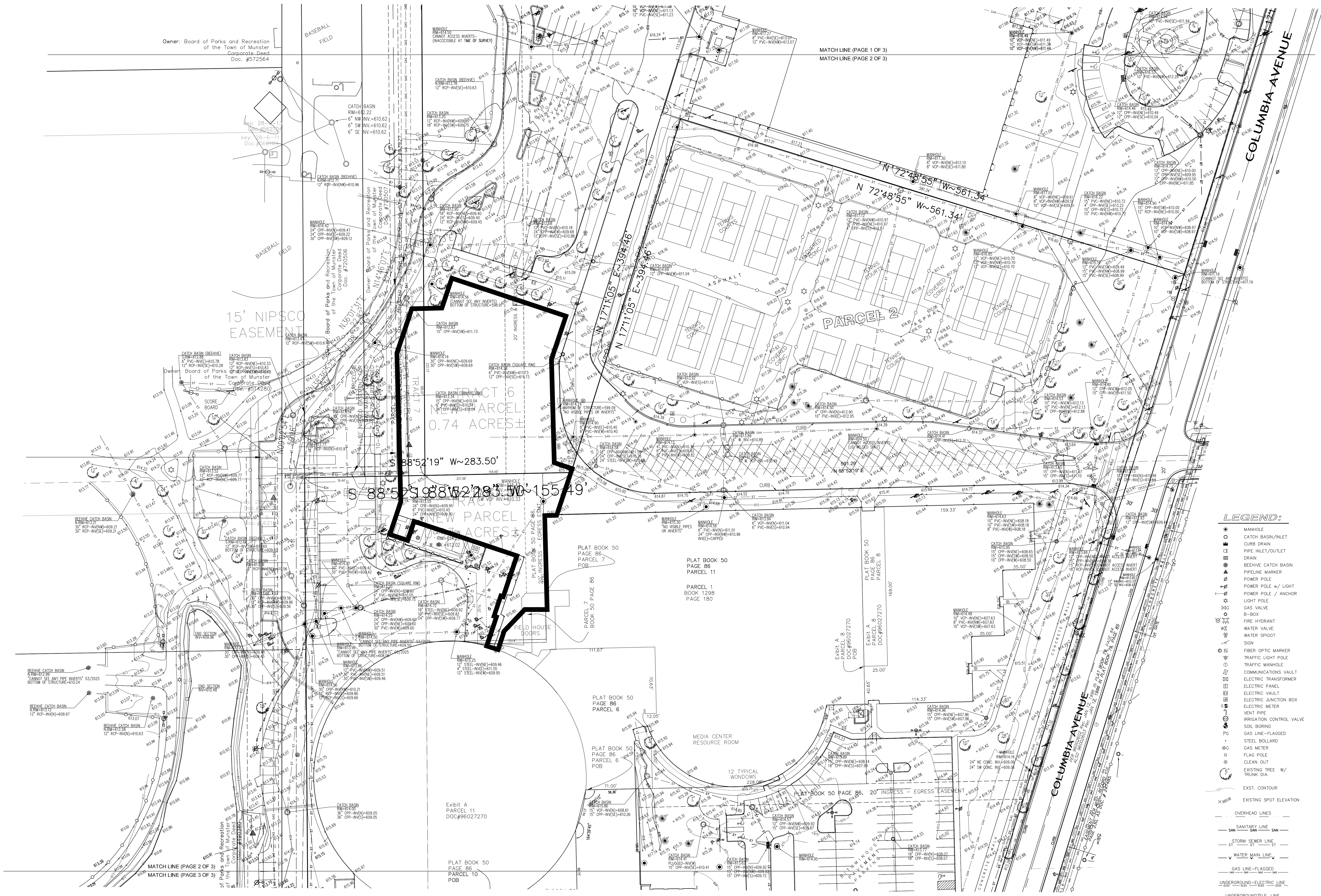
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SCALE: 1" = 40'

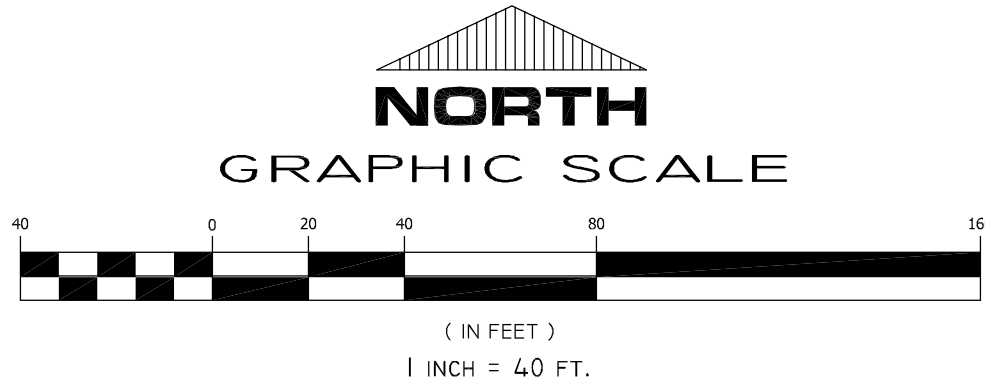
SHEET 1 OF 3

FILE NO. 7: Munster High School 2024.dwg 5/20/2025 1:37:04 PM CDT

TOPOGRAPHICAL SURVEY



Additional Survey Related Notes:
1. Dimensions on this plat are expressed in feet and decimal parts thereof, and are measured values, unless otherwise noted.
2. This survey does not address the existence, if any, of items that would require an interpretation by the surveyor, (i.e. compliance with all zoning requirements) existence of items beyond the qualification of survey (i.e. wetlands, hazardous materials) and items not readily visible during a reasonable inspection of site (past cemeteries, landfills, and mineral rights).
3. Parcels identified by title description or record references as per 865 IAC 1-12-13(11) are obtained from County Auditor's Office and/or Recorder's Office and are not certified. The information may or may not reference the most current deed or record or the most current status or title for that parcel.



STATE OF INDIANA }
COUNTY OF LAKE }

THIS IS NOT A BOUNDARY SURVEY
In accordance with 865 IAC 1-12-12(f): This drawing is not intended to be represented as a
retacement or original boundary survey, a route survey, or a Surveyor's Location Report.

DATE OF SURVEY: MAY 20, 2025

TORRENGA SURVEYING, LLC.
JOHN STUART ALLEN - Registered Land Surveyor No. LS29900011



TOPOGRAPHICAL SURVEY
WILBUR WRIGHT MIDDLE SCHOOL
8520-8830 COLUMBIA AVENUE

TORRENGA SURVEYING, LLC
PROFESSIONAL LAND SURVEYORS
907 RIDGE ROAD, MUNSTER, INDIANA 46321
TEL. NO.: (219) 836-8918
WEBSITE: WWW.TORRENGA.COM

DATE: JUNE 25, 2025
REVISIONS:

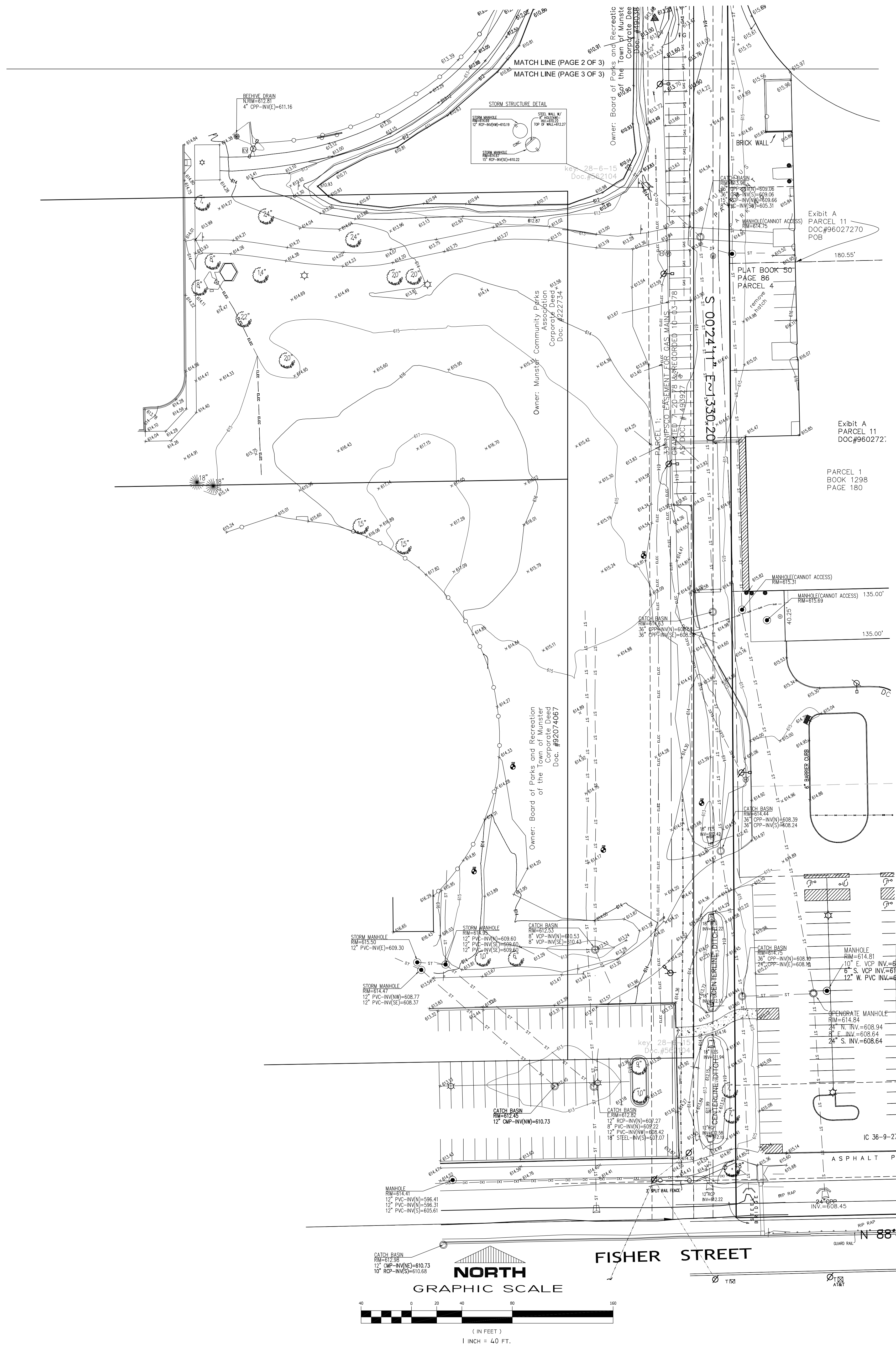
CLIENT: School Town of Munster

JOB NO: 2025-0109
DRAWN: SLD

SCALE: 1" = 40'

SHEET
2 OF 3

TOPOGRAPHICAL SURVEY



LEGEND:

-  MANHOLE
 CATCH BASIN/INLET
 CURB DRAIN
 PIPE INLET/OUTLET
 DRAIN
 RECURVE CATCH BASIN
 PIPELINE MARKER
 POWER POLE
 POWER POLE w/ LIGHT
 POWER POLE / ANCHOR
 LIGHT POLE
 GAS VALVE
 B-BOX
 FIRE HYDRANT
 WATER VALVE
 WATER SPIGOT
 SIGN
 FIBER OPTIC MANHOLE
 TRAFFIC LIGHT POLE
 TRAFFIC MANHOLE
 COMMUNICATIONS VAULT
 ELECTRIC TRANSFORMER
 ELECTRIC PANEL
 ELECTRIC VAULT
 ELECTRIC JUNCTION BOX
 ELECTRIC METER
 VENT PIPE
 REGULATION CONTROL VALVE
 SLO. BORING
 GAS LINE-FLAGGED
 STEEL BOLLARD
 GAS METER
 FLAG POLE
 CLEAN OUT
 EXISTING TRENCH W/
TRUNK DIA.
 EXIST. CONTOUR
 EXISTING SPOT ELEVATION
- OVERHEAD LINES
 SANITARY LINE
 STORM SEWER LINE
 WATER MAIN LINE
 GAS LINE-FLAGGED
 UNDERGROUND TELEPHONE LINE
 UNDERGROUND TELE. LINE

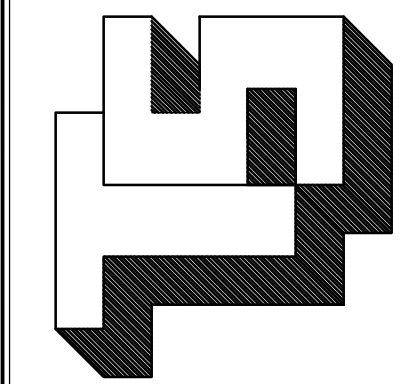
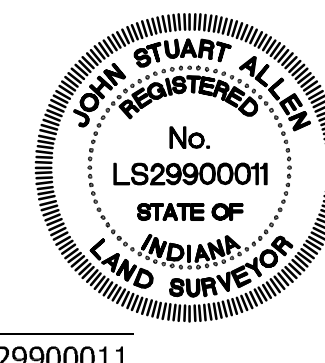
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SHEET
(3) OF (3)