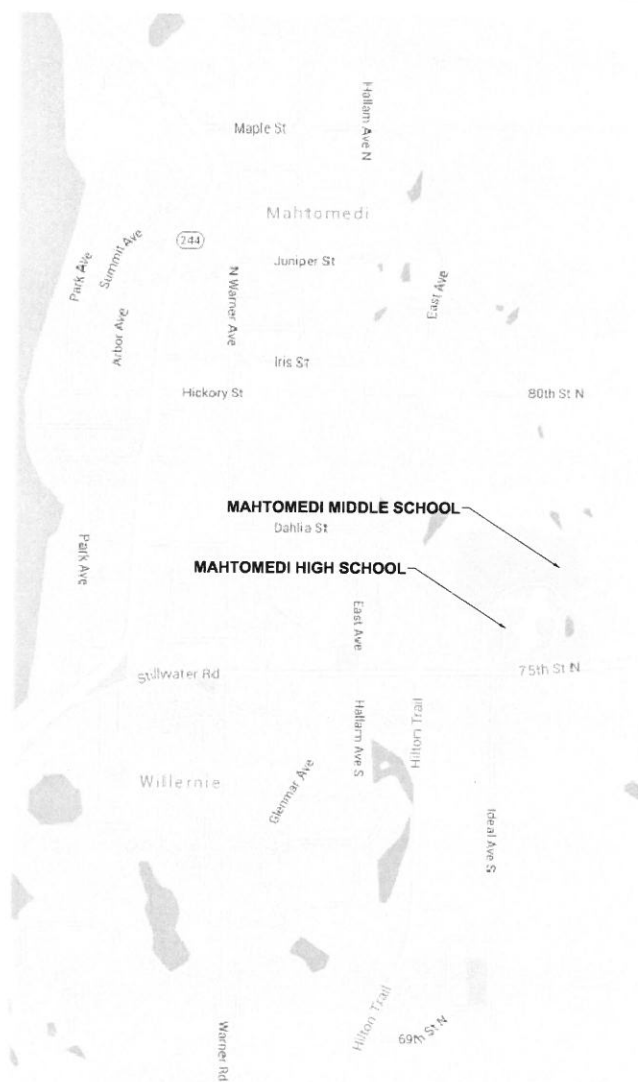


2017 MAHTOMEDI SCHOOLS
PAVEMENT RECONSTRUCTION

MAHTOMEDI PUBLIC SCHOOLS
INDEPENDENT SCHOOL DISTRICT 832
1520 MAHTOMEDI AVENUE
MAHTOMEDI, MN 55115

VICINITY MAP



GENERAL NOTES

1. ALL CONSTRUCTION MUST COMPLY WITH APPLICABLE STATE AND LOCAL ORDINANCES.
2. THE CONTRACTOR WILL BE RESPONSIBLE FOR AND SHALL PAY FOR ALL CONSTRUCTION STAKING / LAYOUT.
3. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL RELATED CONSTRUCTION PERMITS, INCLUDING THE NPDES PERMIT FROM THE MPCA. SUBMIT A COPY OF ALL PERMITS TO THE CITY.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL SIGNAGE (CONSTRUCTION ZONES) NECESSARY TO CONSTRUCT PROPOSED IMPROVEMENTS. ALL SIGNAGE LAYOUTS MUST BE DESIGNED BY THE CONTRACTOR AND APPROVED BY LOCAL AUTHORITIES.
5. INSTALL CONTROL FENCING AND BARRICADING AS NECESSARY TO PROTECT THE PUBLIC.
6. INSPECT SITE AND REVIEW SOIL BORINGS TO DETERMINE EXTENT OF WORK AND NATURE OF MATERIALS TO BE HANDLED.
7. REFER TO SPECIFICATIONS FOR DEWATERING REQUIREMENTS.
8. CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
9. REFER TO THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE, PART OF SECTION 01 89 13, FOR EROSION CONTROL REQUIREMENTS.
10. MAINTAIN ADJACENT PROPERTY AND PUBLIC STREETS CLEAN FROM CONSTRUCTION CAUSED DIRT AND DEBRIS ON A DAILY BASIS. PROTECT DRAINAGE SYSTEMS FROM SEDIMENTATION AS A RESULT OF CONSTRUCTION RELATED DIRT AND DEBRIS.
11. MAINTAIN DUST CONTROL DURING GRADING OPERATIONS.
12. ALL EROSION CONTROL METHODS SHALL COMPLY WITH MPCA AND LOCAL REGULATIONS.
13. CONTRACTOR SHALL MINIMIZE DISTURBANCE TO SITE AND PROTECT EXISTING SITE FEATURES (INCLUDING TURF AND VEGETATION) WHICH ARE TO REMAIN.
14. PROPOSED CONTOURS AND SPOT ELEVATIONS ARE SHOWN TO FINISH GRADE UNLESS OTHERWISE NOTED.
15. PROPOSED ELEVATIONS SHOWN TYPICALLY AS 10.1 OR 10 SHALL BE UNDERSTOOD TO MEAN 1010.1 OR 1010.
16. SPOT ELEVATIONS SHOWN IN PARKING LOTS, DRIVES AND ROADS INDICATE GUTTER GRADES, UNLESS NOTED OTHERWISE. SPOT ELEVATIONS WITH LABELS OUTSIDE THE BUILDING PERIMETER INDICATE PROPOSED GRADES OUTSIDE THE BUILDING.
17. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES OF CUT, FILL AND WASTE MATERIALS TO BE HANDLED, AND FOR AMOUNT OF GRADING TO BE DONE IN ORDER TO COMPLETELY PERFORM ALL WORK INDICATED ON THE DRAWINGS. IMPORT SUITABLE MATERIAL AND EXPORT UNSUITABLE / EXCESS / WASTE MATERIAL AS REQUIRED. ALL COSTS ASSOCIATED WITH IMPORTING AND EXPORTING MATERIALS SHALL BE INCIDENTAL TO THE CONTRACT.
18. NO FINISHED SLOPES SHALL EXCEED 4" HORIZONTAL TO 1" VERTICAL (4:1), UNLESS OTHERWISE NOTED.
19. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD WHICH ARE NOT DESIGNATED TO BE PAVED, SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED.
20. WHERE NEW SOD MEETS EXISTING SOD, EXISTING SOD EDGE SHALL BE CUT TO ALLOW FOR A CONSISTENT, UNIFORM STRAIGHT EDGE. JAGGED OR UNEVEN EDGES WILL NOT BE ACCEPTABLE. REMOVE TOPSOIL AT JOINT BETWEEN EXISTING AND NEW AS REQUIRED TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING.
21. FAILURE OF TURF DEVELOPMENT: IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, THE CONTRACTOR SHALL RE-SOD ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.
22. ALL WATERMAIN PIPE SHALL BE DIP, CLASS S2. ALL WATERMAIN SHALL HAVE MINIMUM 7'-6" BURY (TOP OF PIPE TO FINISH GRADE).
23. ALL STORM SEWER PIPE SHALL BE RCP, CLASS III (MIN.), WITH FLEXIBLE WATERTIGHT JOINTS IN ACCORDANCE WITH ASTM C-361 OR PVC PIPE (ASTM D3034, SDR 35) INSTALLED IN ACCORDANCE WITH ASTM D2221, UNLESS OTHERWISE NOTED.
24. FLEXIBLE JOINTS AT STORM SEWER PIPE CONNECTIONS TO STRUCTURES:
 - a. IN ACCORDANCE WITH MINNESOTA PLUMBING CODE, PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL STORM SEWER STRUCTURES.
 - b. ACCEPTABLE MANUFACTURERS / PRODUCTS:
 - i. FERNCO, "CONCRETE MANHOLE ADAPTORS" OR "LARGE-DIAMETER WATERSTOPS"
 - ii. PRESS-SEAL WATERSTOP GROUTING RINGS
 - iii. OR APPROVED EQUAL.
25. WATERMAIN SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAIN TILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION PER MN PLUMBING CODE. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
26. ANY MANHOLE, CATCH BASIN, STORM SEWER, DRAIN TILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN PER MN PLUMBING CODE. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
27. LOCATE ALL EXISTING UTILITIES, VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES. VERIFY LOCATIONS, SIZES AND ELEVATIONS OF SAME BEFORE BEGINNING CONSTRUCTION.
28. CONTRACTOR SHALL STAKE LIMITS OF WALKS AND CURBING PRIOR TO INSTALLATION OF GATE VALVES, CATCH BASINS AND MANHOLES. GATE VALVE AND MANHOLE LOCATIONS SHALL BE ADJUSTED TO AVOID PLACEMENT OF THESE STRUCTURES IN WALKS AND CURB AND GUTTER. CURB AND GUTTER SHALL BE STAKED TO ALLOW CURB INLET TYPE CATCH BASINS TO BE PROPERLY LOCATED IN LINE WITH CURBING.

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NOT FOR CONSTRUCTION

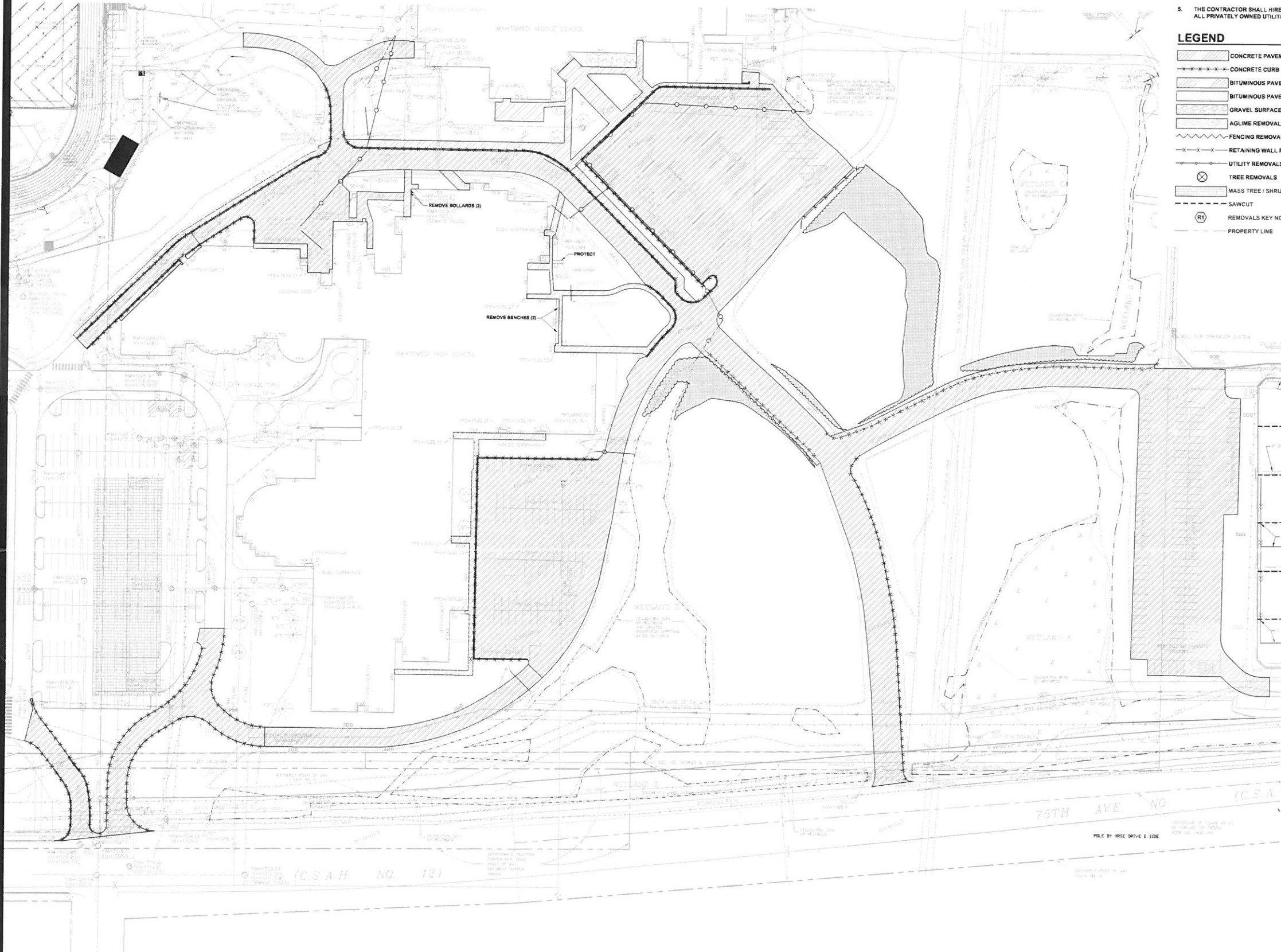
Project No. 15138
Date 1/10/2018
Drawn By JLD
Checked By JLD
Revisions

TITLE SHEET

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.
DAVID A. REY
Reg. No. 45192 Date 2/2/15/XX

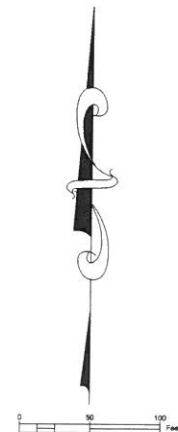
2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

Sheet
T1.0
of



- NOTES:**
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 4. VISIT THE SITE PRIOR TO BIDDING, BE FAMILIAR WITH ACTUAL CONDITIONS IN THE FIELD. EXTRA COMPENSATION WILL NOT BE ALLOWED FOR CONDITIONS WHICH COULD HAVE BEEN DETERMINED OR ANTICIPATED BY EXAMINATION OF THE SITE, THE CONTRACT DRAWINGS AND THE INFORMATION AVAILABLE PERTAINING TO EXISTING SOILS, UTILITIES AND OTHER SITE CHARACTERISTICS.
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MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

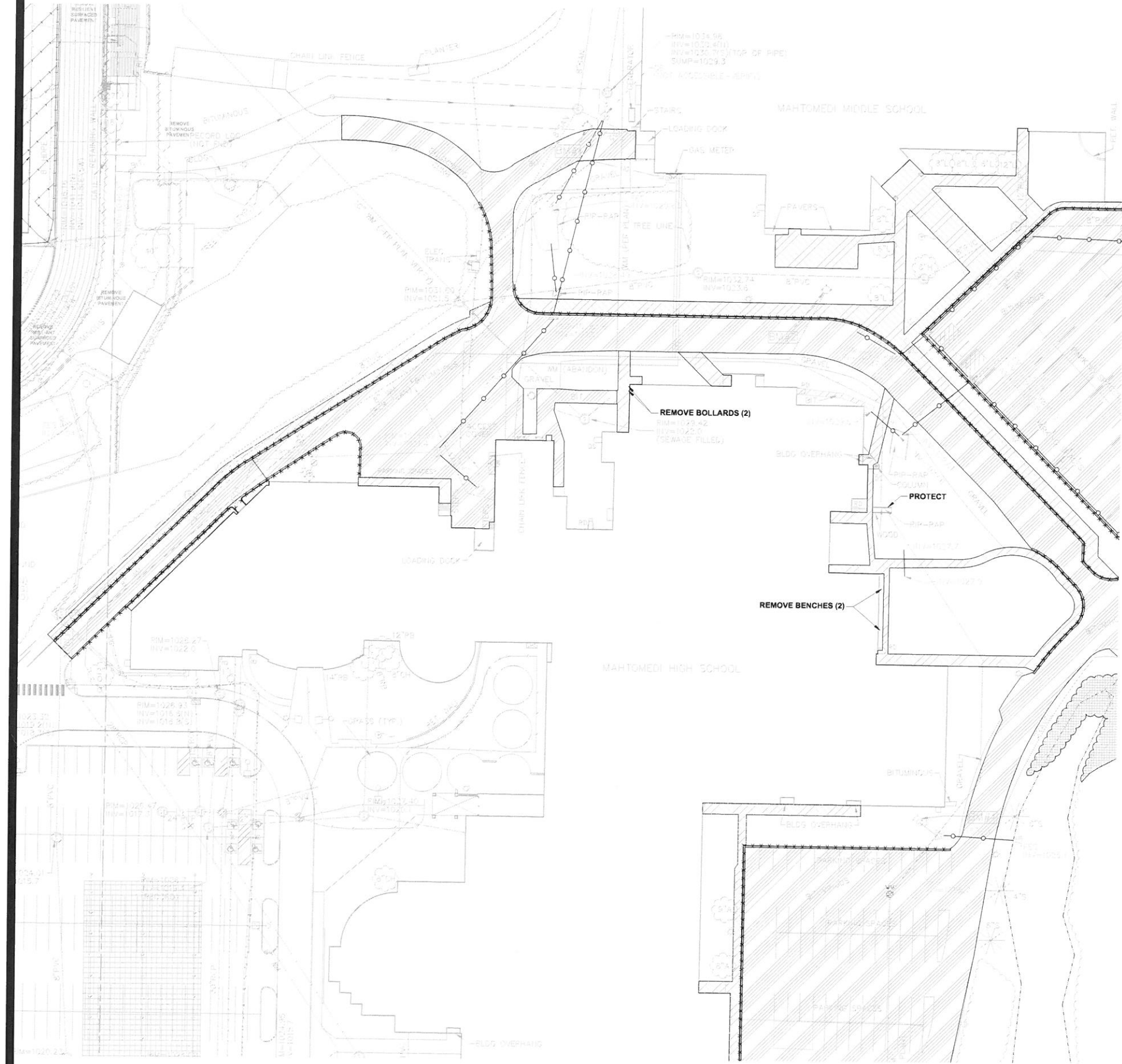
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OVERALL REMOVALS PLAN

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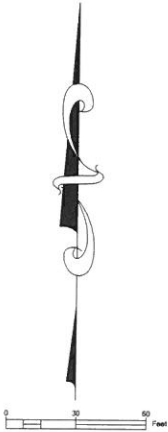
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Project No. 15138
Date 11/06/2016
Drawn By JDS
Checked By JDS
Revisions

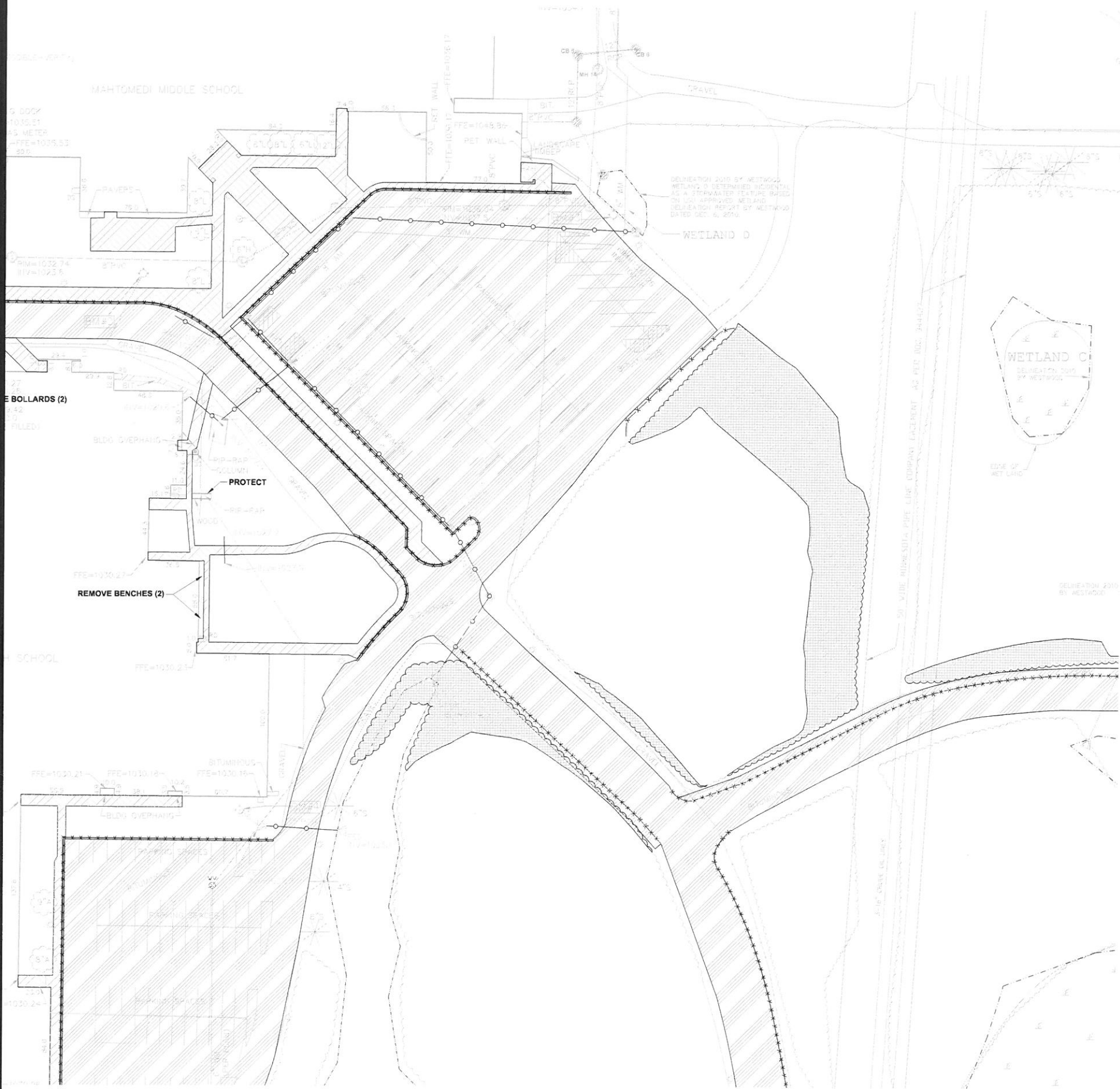


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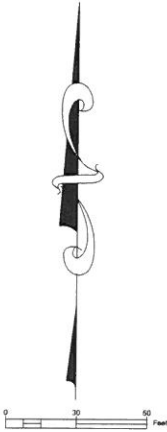


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NOT FOR CONSTRUCTION

2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

REMOVALS PLAN

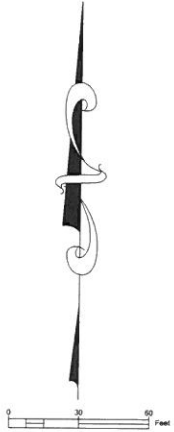
I hereby certify that this plan, specification and contract documents were prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.
DAVID A. REY
Reg. No. 40180 Date XX/XX/XX

Project No.	13138
Drawn By	11/09/2016
Ck. By	DL
Revisions	



- NOTES:**
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1318
11/09/2018
By
Ck. By
Revisions

Project No.
Date
Drawn By
Checked By
Revisions

REMOVALS PLAN

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed professional engineer under the laws of the State of Minnesota.
Reg. No. 40180 Date 11/11/18

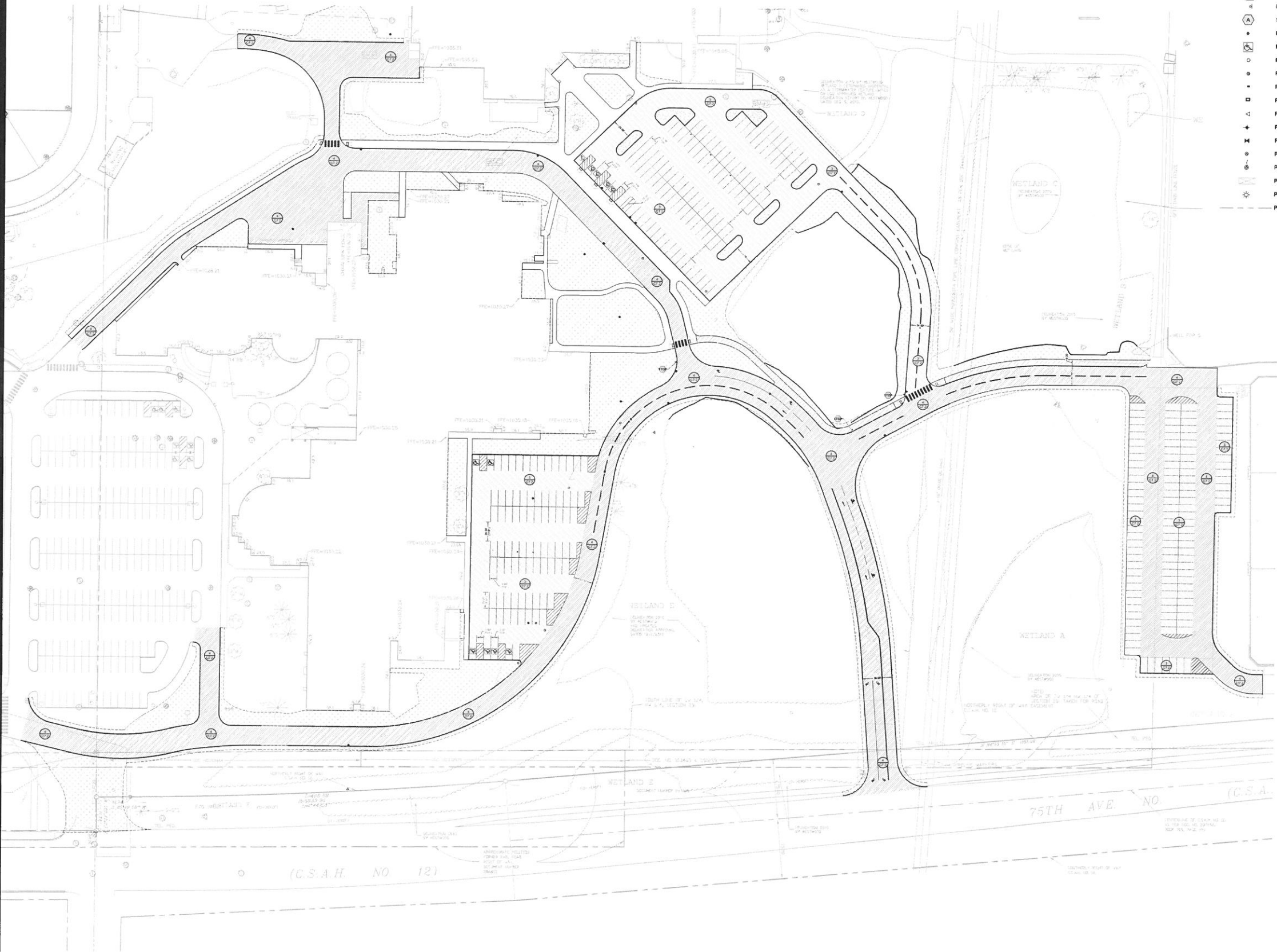
2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

Sheet
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of

1. REFER TO SHEET T1.0, TITLE SHEET, FOR GENERAL NOTES.
2. CHECK ALL PLAN AND DETAIL DIMENSIONS AND VERIFY SAME BEFORE FIELD LAYOUT.
3. SIGNAGE SHALL GENERALLY BE INSTALLED 18" BEHIND THE BACK OF CURB.
4. ALL DISTURBED AREAS OUTSIDE THE BUILDING PAD WHICH ARE NOT DESIGNATED TO BE PAVED SHALL RECEIVE AT LEAST 6" OF TOPSOIL AND SHALL BE SODDED OR SEEDED.
5. WHERE NEW SOD MEETS EXISTING TURF, EXISTING TURF EDGE SHALL BE CUT TO ALLOW FOR A CONSISTENT, UNIFORM STRAIGHT EDGE. JAGGED OR UNEVEN EDGES WILL NOT BE ACCEPTABLE. REMOVE TOPSOIL AT JOINT BETWEEN EXISTING AND NEW AS REQUIRED TO ALLOW NEW SOD SURFACE TO BE FLUSH WITH EXISTING.
6. FAILURE OF TURF DEVELOPMENT, IN THE EVENT THE CONTRACTOR FAILS TO PROVIDE AN ACCEPTABLE TURF, THE CONTRACTOR SHALL RE-SOD OR RE-SEED ALL APPLICABLE AREAS, AT NO ADDITIONAL COST TO THE OWNER, TO THE SATISFACTION OF THE ENGINEER.

LEGEND

- REFERENCE KEY TO SITE DETAILS
DETAIL L.D. NUMBER (TOP)
DETAIL SHEET NUMBER (BOTTOM)
- PROPOSED CONCRETE WALK
 - PROPOSED CONCRETE SLAB
 - PROPOSED LIGHT DUTY BITUMINOUS PAVEMENT
 - PROPOSED MEDIUM DUTY BITUMINOUS PAVEMENT
 - PROPOSED HEAVY DUTY BITUMINOUS PAVEMENT
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 - SIGNAGE KEY NOTE
 - PROPOSED BOLLARD
 - PAINTED ACCESSIBLE SYMBOL
 - PROPOSED MANHOLE (MH)
 - PROPOSED CATCH BASIN (CB)
 - PROPOSED RISER INLET (RI)
 - PROPOSED SURGE BASIN (SB)
 - PROPOSED FLARED END SECTION (FES)
 - PROPOSED HYDRANT (HYD)
 - PROPOSED GATE VALVE (GV)
 - PROPOSED POST INDICATOR VALVE (PIV)
 - PROPOSED FLAGPOLE - REFER TO ARCHITECTURAL PLANS
 - PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS
 - PROPOSED LIGHT POLE - REFER TO ELECTRICAL PLANS
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MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

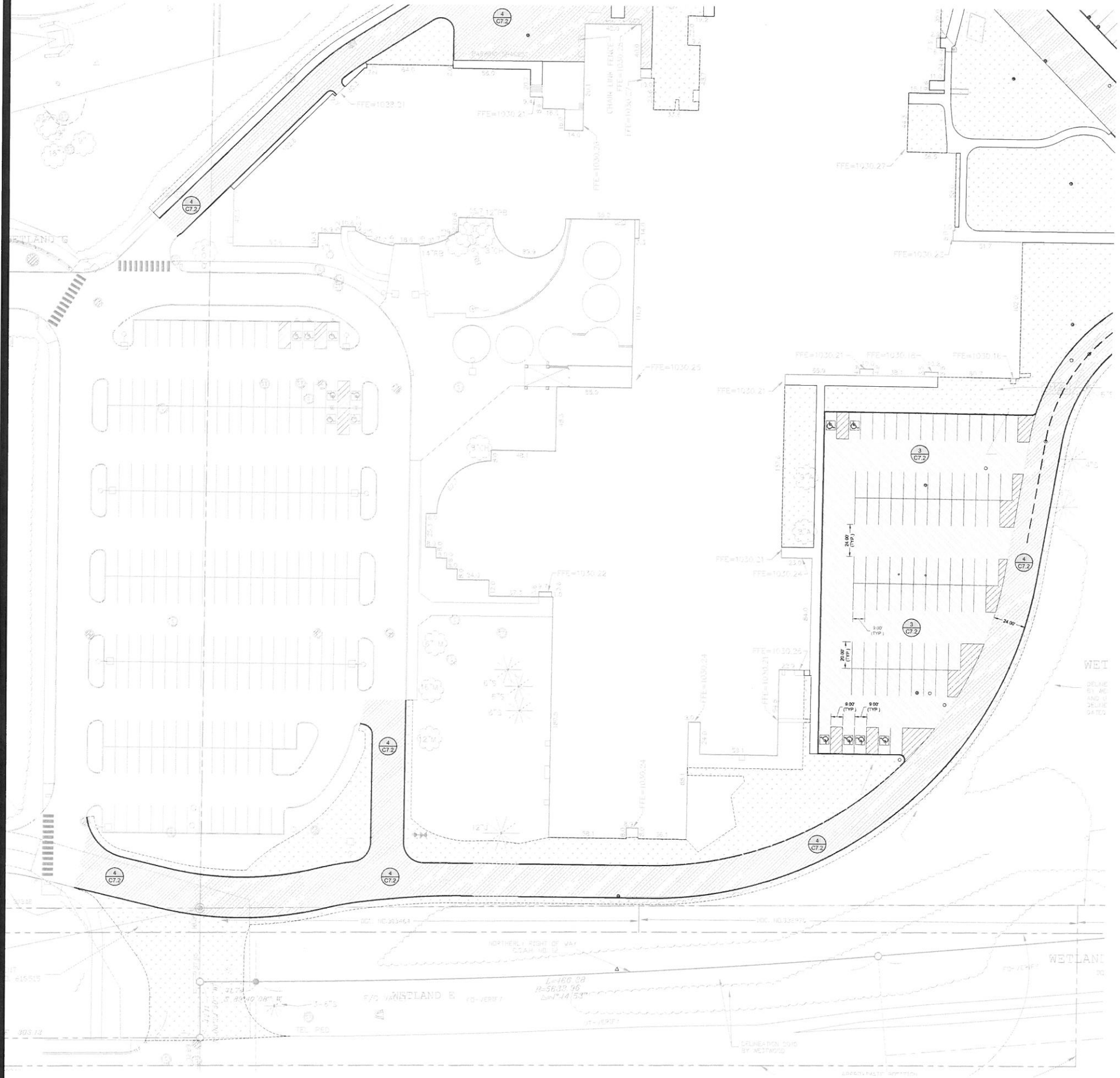
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OVERALL SITE PLAN

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

Reg. No. 40180 Date XX/XX/XX

Project No. 15138
Drawn By T102970
Checked By
Revisions



- NOTES:**
1. REFER TO SHEET C4.1, OVERALL GRADING PLAN, FOR GENERAL NOTES.
 2. REFER TO SHEET C2.1, OVERALL SITE PLAN, FOR SITE PLAN NOTES.

- LEGEND**
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MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
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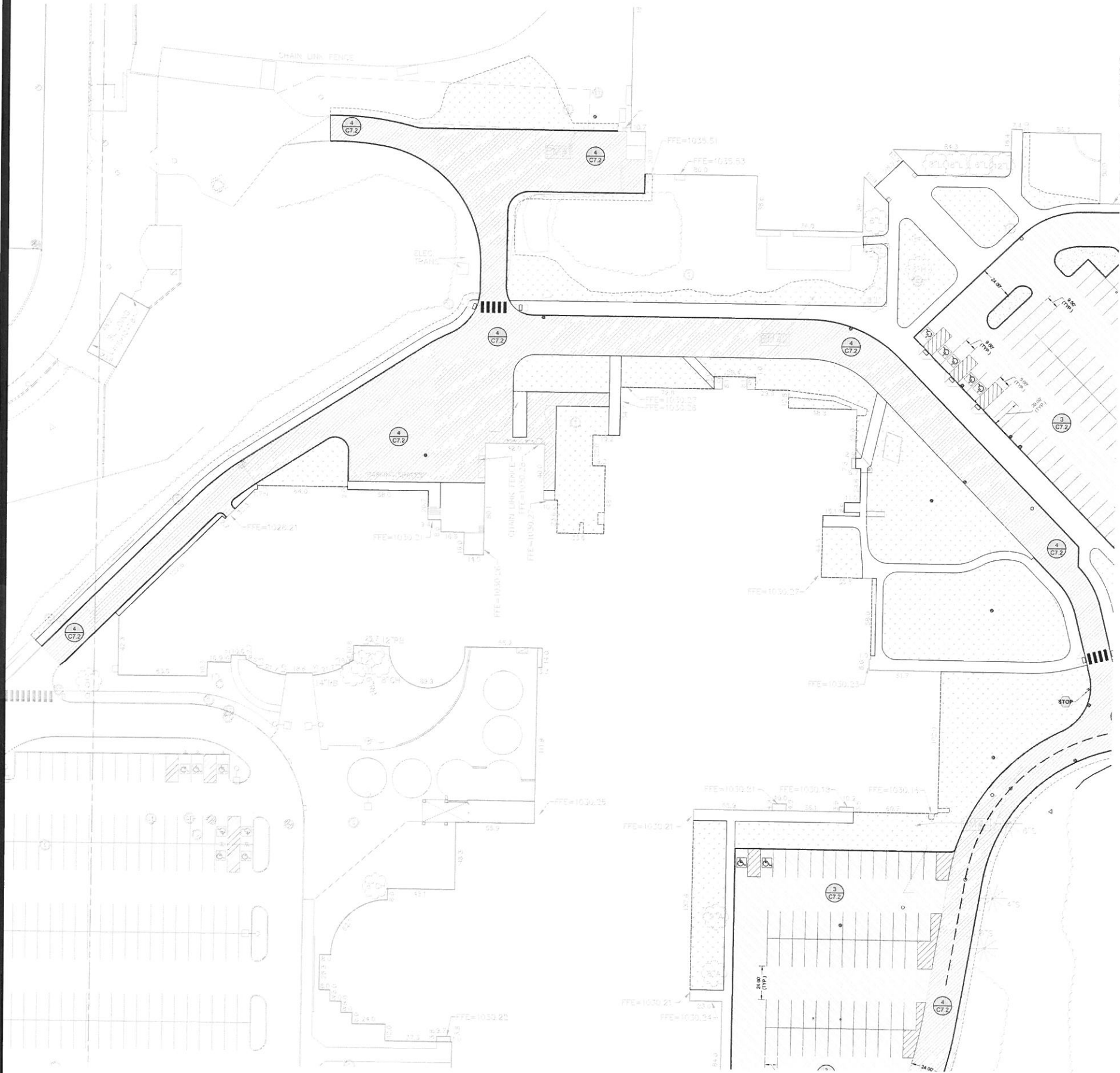
SITE PLAN

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Project No.	15138
Date	1/10/2018
Drawn By	JLB
Check By	
Revisions	

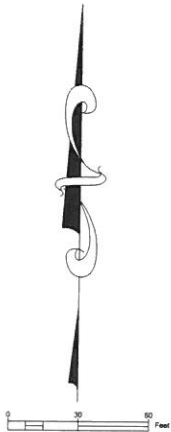
David A. Rey
Reg. No. 40180 Date XX/XX/XX

Sheet
C2.2
of



- NOTES:**
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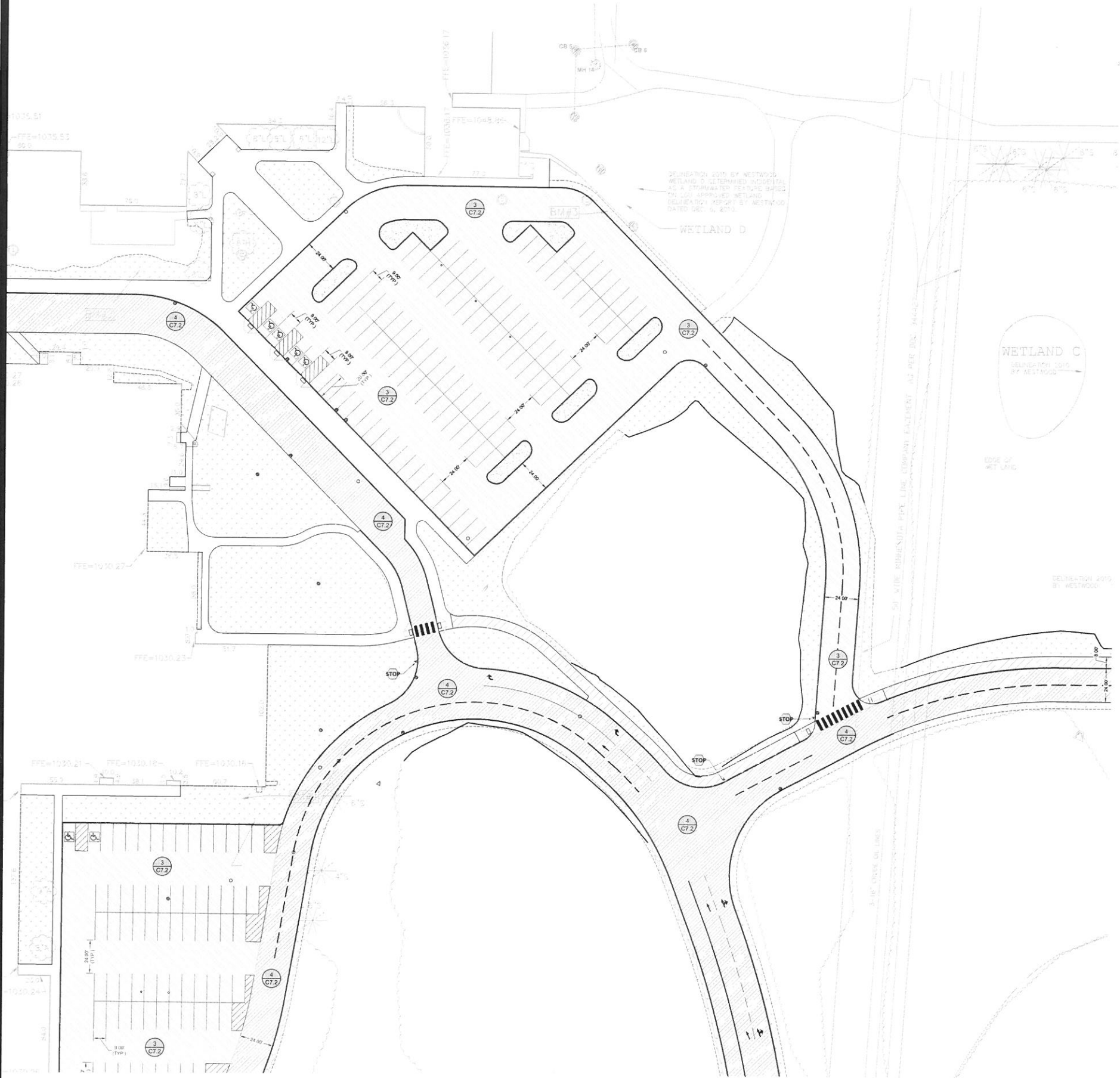
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SITE PLAN

Project No.	18138
Drawn By	TJW/2018
Checked By	CK
Revisions	

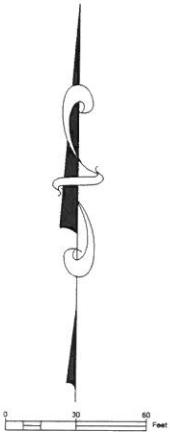
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed professional engineer under the laws of the State of Minnesota.

DAVID A. REY
Reg. No. 40180 Date XX/XX/XX



- NOTES:**
1. REFER TO SHEET C4.1, OVERALL GRADING PLAN, FOR GENERAL NOTES.
 2. REFER TO SHEET C2.1, OVERALL SITE PLAN, FOR SITE PLAN NOTES.

- LEGEND**
- REFERENCE KEY TO SITE DETAILS
DETAIL ID NUMBER (TOP)
DETAIL SHEET NUMBER (BOTTOM)
- PROPOSED CONCRETE WALK
 - PROPOSED CONCRETE SLAB
 - PROPOSED LIGHT DUTY BITUMINOUS PAVEMENT
 - PROPOSED MEDIUM DUTY BITUMINOUS PAVEMENT
 - PROPOSED HEAVY DUTY BITUMINOUS PAVEMENT
 - APPROXIMATE SOD LIMITS
 - PROPOSED RETAINING WALL
 - PROPOSED CHAIN LINK FENCING
 - PROPOSED CHAIN LINK FENCING WITH MAINTENANCE STRIP
 - FENCING KEY NOTE
 - PROPOSED TRAFFIC CONTROL SIGN
 - SIGNAGE KEY NOTE
 - PROPOSED BOLLARD
 - PAINTED ACCESSIBLE SYMBOL
 - PROPOSED MANHOLE (MH)
 - PROPOSED CATCH BASIN (CB)
 - PROPOSED RISER INLET (RI)
 - PROPOSED SURGE BASIN (SB)
 - PROPOSED FLARED END SECTION (FES)
 - PROPOSED HYDRANT (HYD)
 - PROPOSED GATE VALVE (GV)
 - PROPOSED POST INDICATOR VALVE (PIV)
 - PROPOSED FLAGPOLE - REFER TO ARCHITECTURAL PLANS
 - PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS
 - PROPOSED LIGHT POLE - REFER TO ELECTRICAL PLANS
 - PROPERTY LINE



NOT FOR CONSTRUCTION

2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

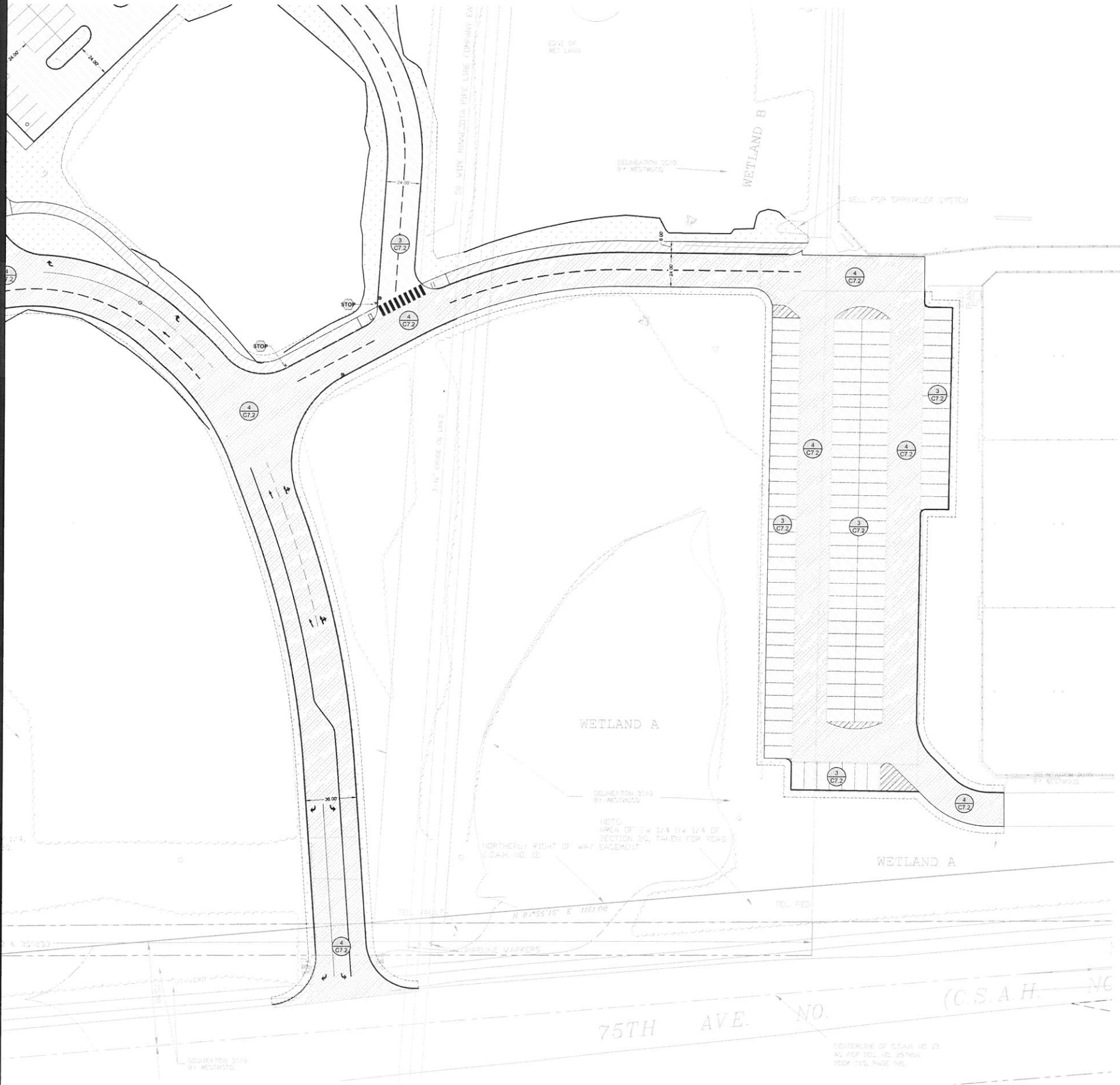
SITE PLAN

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

DAVID A. REY
Reg. No. 40180 Date 11/11/11

Project No.	15138
Date	11/08/2011
By	
Chk. By	
Revisions	

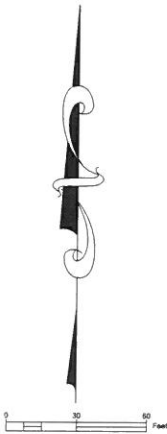
Sheet
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of



- NOTES:**
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 - PROPOSED LIGHT POLE - REFER TO ELECTRICAL PLANS
 - PROPERTY LINE



Project No.	15138
Date	11/08/2018
Drawn By	J.D.
Checked By	
Revisions	

SITE PLAN

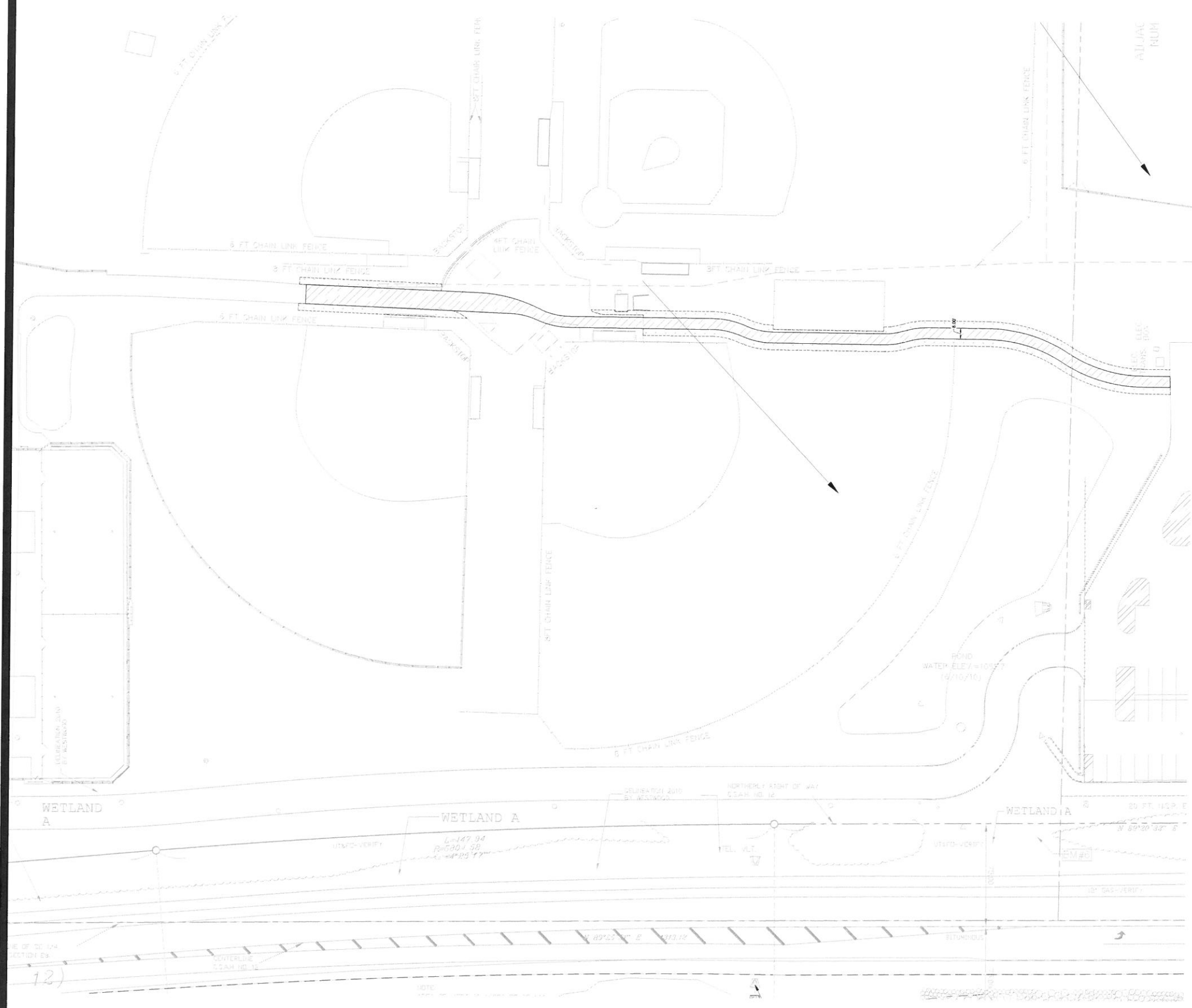
I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed professional engineer in the State of Minnesota.

DAVID A. RET
Reg. No. 40180 Date XX/XX/XX

2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

Sheet **C2.5** of

NOT FOR CONSTRUCTION



- NOTES:**
1. REFER TO SHEET C4.1, OVERALL GRADING PLAN, FOR GENERAL NOTES.
 2. REFER TO SHEET C2.1, OVERALL SITE PLAN, FOR SITE PLAN NOTES.

- LEGEND**
- REFERENCE KEY TO SITE DETAILS
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 - PROPOSED FLAGPOLE - REFER TO ARCHITECTURAL PLANS
 - PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS
 - PROPOSED LIGHT POLE - REFER TO ELECTRICAL PLANS
 - PROPERTY LINE

Project No.	15138
Drawn By	TJG/08/08
Check By	
Revisions	

SITE PLAN

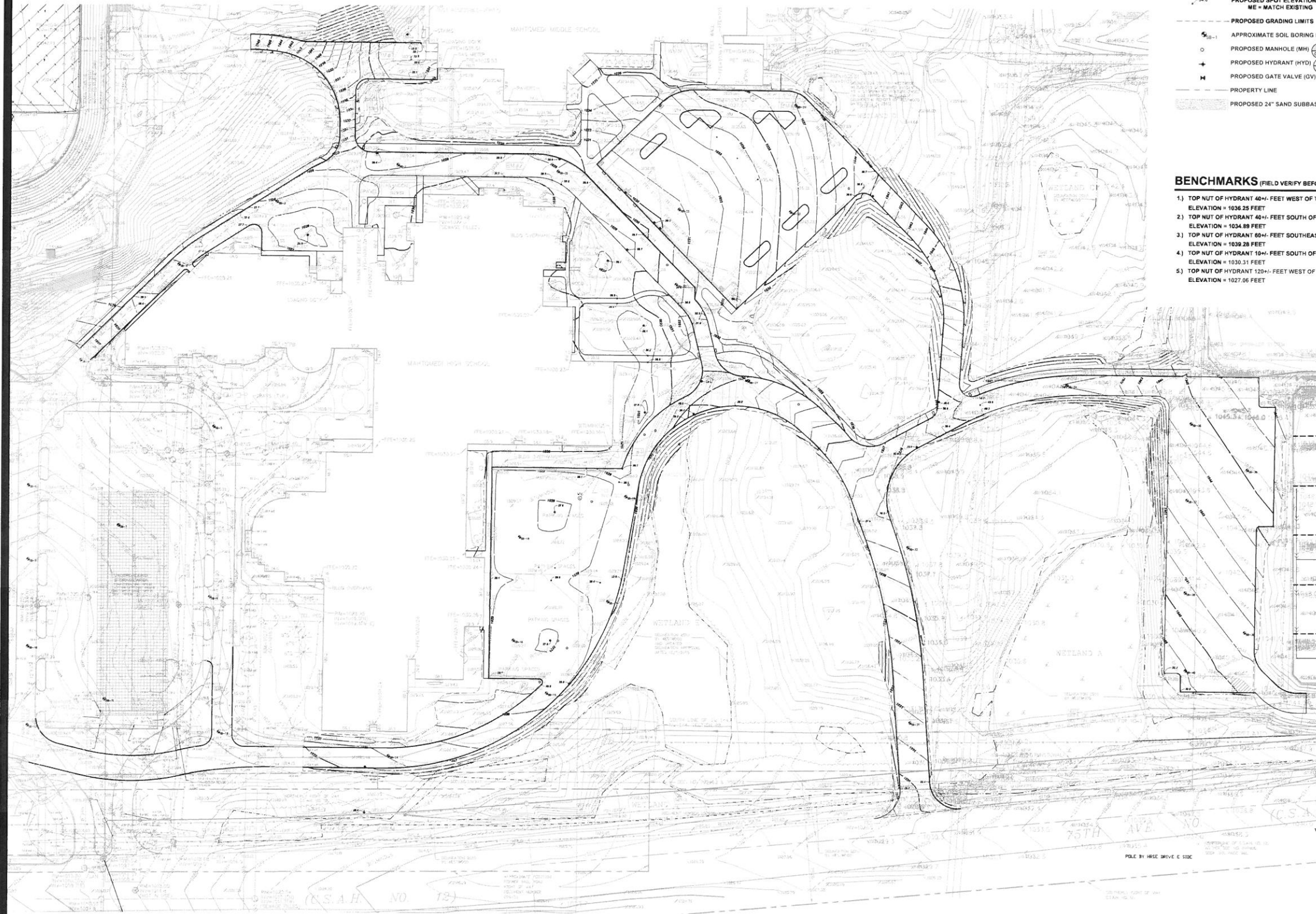
I hereby certify that this plan, specification, and report were prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer and the laws of the State of Minnesota.

DAVID A. REY
Reg. No. 40150 Date XX/XX/XX

2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

Sheet **C2.6** of

NOT FOR CONSTRUCTION



NOTES

1. REFER TO T1.0, TITLE SHEET, FOR GENERAL NOTES.

LEGEND

- REFERENCE KEY TO SITE DETAILS
DETAIL I.D NUMBER (TOP)
DETAIL SHEET NUMBER (BOTTOM)
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
WE = MATCH EXISTING
- PROPOSED GRADING LIMITS
- APPROXIMATE SOIL BORING LOCATION
- PROPOSED MANHOLE (MH)
- PROPOSED HYDRANT (HYD)
- PROPOSED GATE VALVE (GV)
- PROPERTY LINE
- PROPOSED 24" SAND SUBBASE

BENCHMARKS (FIELD VERIFY BEFORE USING)

1. TOP NUT OF HYDRANT 40'- FEET WEST OF THE MAHTOMEDI MIDDLE SCHOOL LOADING DOCK
ELEVATION = 1036.25 FEET
2. TOP NUT OF HYDRANT 40'- FEET SOUTH OF THE SOUTH END OF MAHTOMEDI MIDDLE SCHOOL
ELEVATION = 1034.89 FEET
3. TOP NUT OF HYDRANT 60'- FEET SOUTHEAST OF THE SOUTHEAST CORNER OF MAHTOMEDI MIDDLE SCHOOL
ELEVATION = 1039.28 FEET
4. TOP NUT OF HYDRANT 10'- FEET SOUTH OF THE EAST WING OF MAHTOMEDI HIGH SCHOOL
ELEVATION = 1030.31 FEET
5. TOP NUT OF HYDRANT 120'- FEET WEST OF THE SOUTHWEST CORNER OF MAHTOMEDI MIDDLE SCHOOL
ELEVATION = 1027.06 FEET

Project No.	15138
Date	11/08/2018
Drawn By	JD
Checked By	
Revisions	

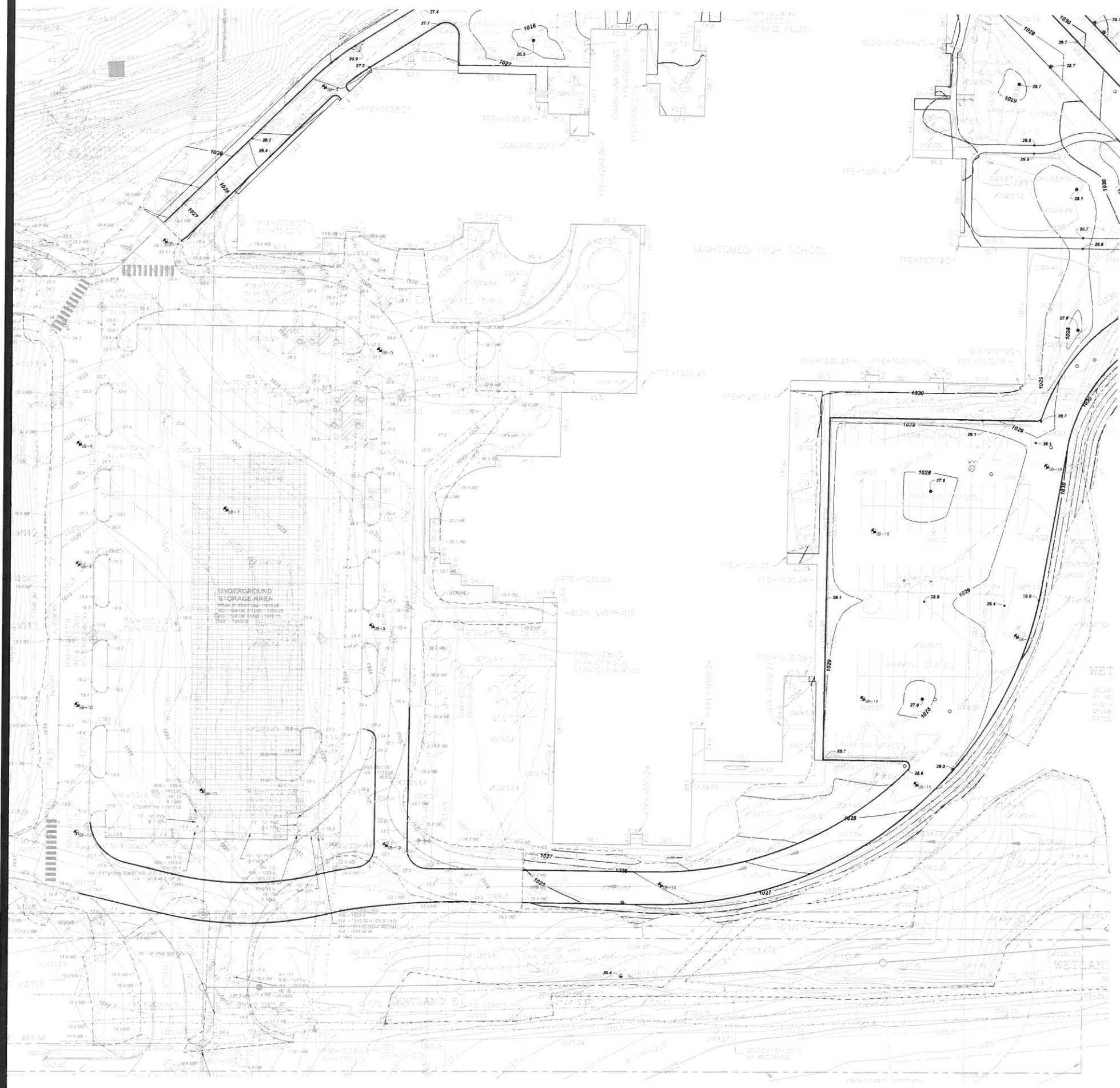
OVERALL GRADING PLAN

I hereby certify that this plan, specification and report were prepared by me or under my direct supervision and that I am a duly licensed professional engineer in the State of Minnesota.

DAVID A. REY
Reg. No. 40180 Date 11/11/18

2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

NOT FOR CONSTRUCTION



NOTES

1. REFER TO T1.0, TITLE SHEET, FOR GENERAL NOTES.

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- PROPOSED 24" SAND SUBBASE



NOT FOR CONSTRUCTION

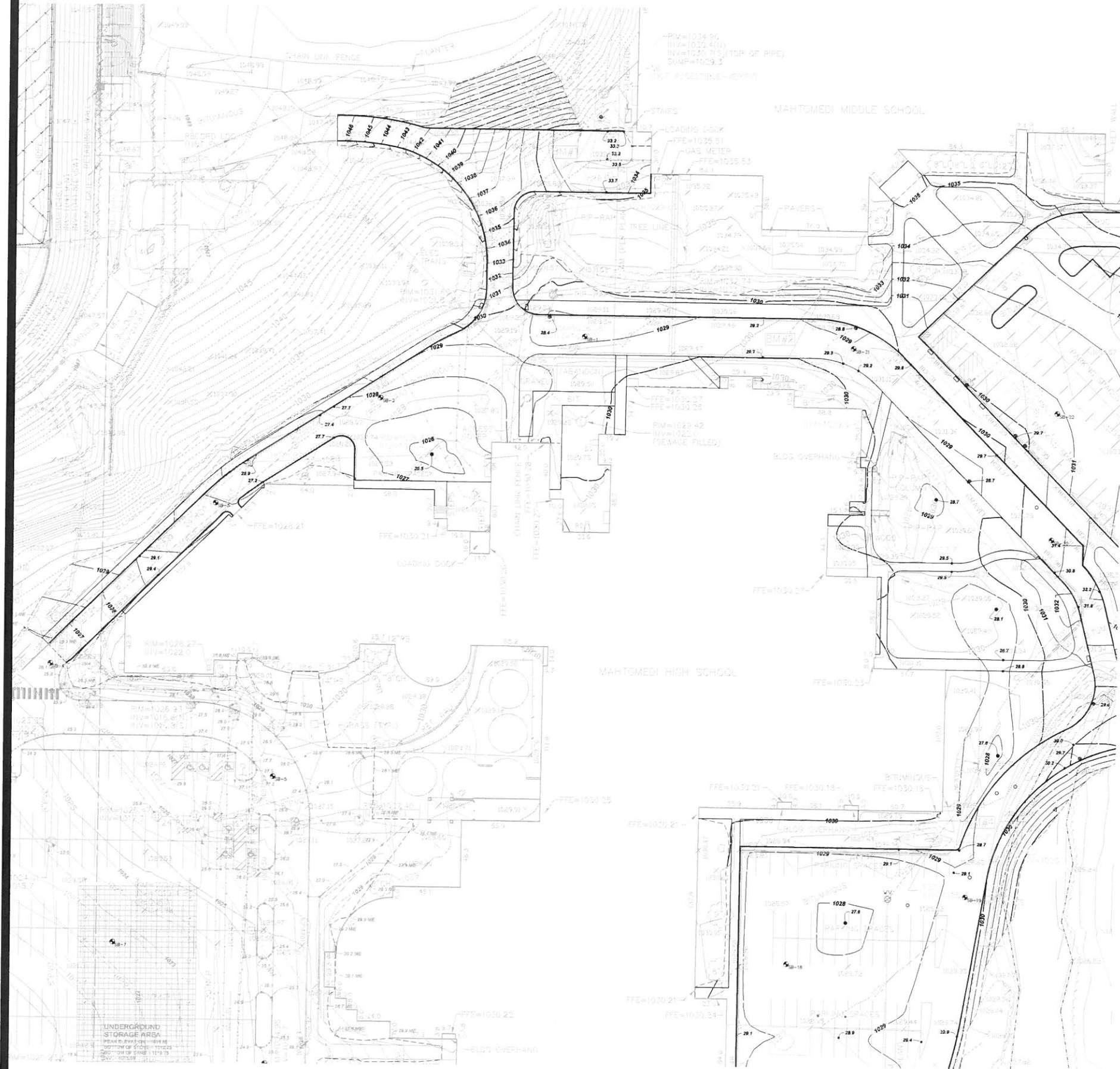
2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

Sheet **C4.2** of

GRADING PLAN

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed professional engineer under the laws of the State of Minnesota.
DAVID A. REY
Reg. No. 40180 Date XX/XX/XX

Project No.	33138
Date	11/02/2016
By	
Ck. By	
Revisions	



NOTES

1. REFER TO T10, TITLE SHEET, FOR GENERAL NOTES.

LEGEND

- REFERENCE KEY TO SITE DETAILS
DETAIL ID NUMBER (TOP)
DETAIL SHEET NUMBER (BOTTOM)
- EXISTING CONTOUR
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- PROPERTY LINE
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GRADING PLAN

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly licensed professional engineer under the laws of the State of Minnesota.

DAVID A. REY
Reg. No. 40150 Date XX/XX/XX

2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

Sheet
C4.3
of

NOT FOR CONSTRUCTION

GRADING PLAN

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DAVID A. RILEY
Reg. No. 40180 Date XX/XX/XX

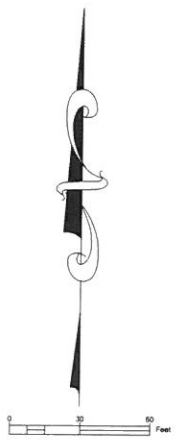
2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

NOTES

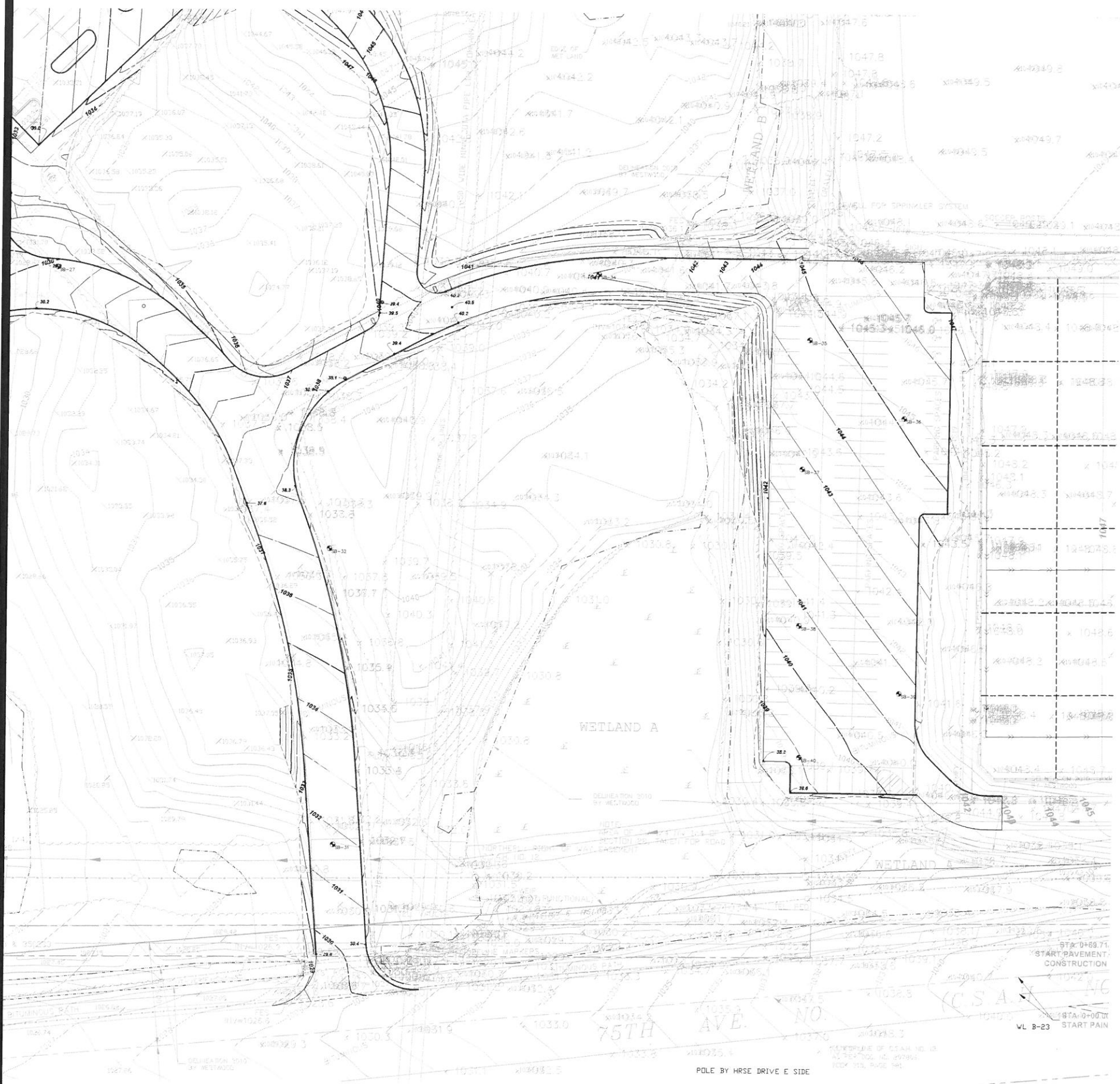
1. REFER TO T1.0, TITLE SHEET, FOR GENERAL NOTES.

LEGEND

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- PROPOSED 24" SAND SUBBASE



NOT FOR CONSTRUCTION

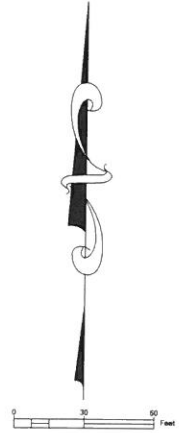


NOTES

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- PROPOSED GATE VALVE (GV)
- PROPERTY LINE
- PROPOSED 24" SAND SUBBASE



Project No.	1518
Date	10/08/2019
Drawn By	JD
Revisions	

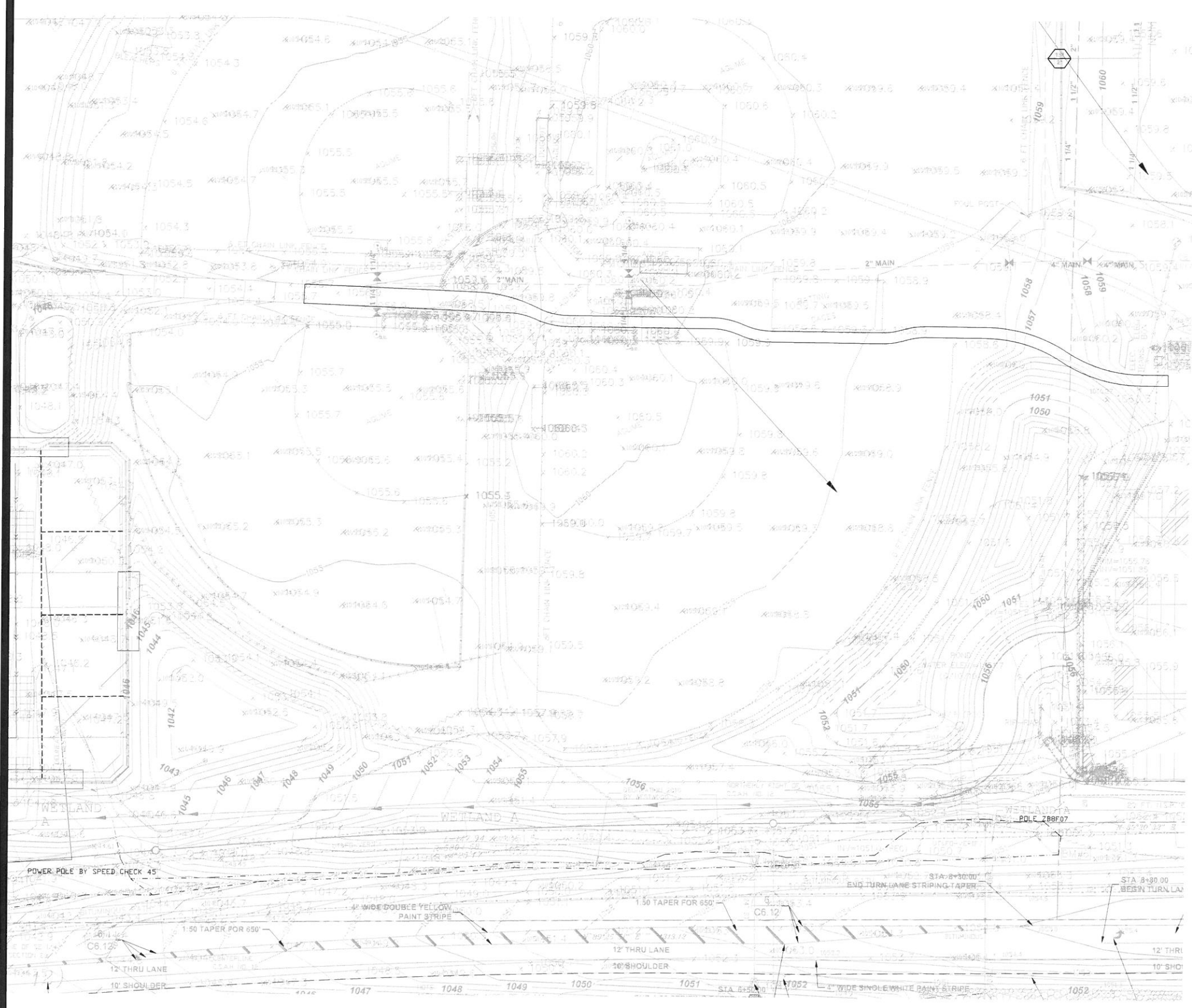
GRADING PLAN

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

DAVID A. REY
Reg. No. 40350 Date 8/22/20

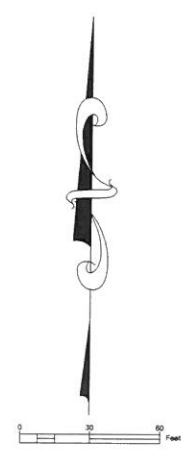
2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

NOT FOR CONSTRUCTION



NOTES
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- LEGEND**
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 - PROPOSED 24" SAND SUBBASE



NOT FOR CONSTRUCTION

Project No. 15138
Date 11/06/2018
Drawn By J.D.
Checked By
Revisions

GRADING PLAN

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DAVID A. REY
Reg. No. 40180 Date 12/15/15

2017 MAHOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHOMEDI HIGH SCHOOL AND MAHOMEDI MIDDLE SCHOOL
GRANT, MN

Sheet **C4.6** of

- 1

2

REFERENCE KEY TO SITE DETAILS
DETAIL, I.D. NUMBER (TOP)
DETAIL SHEET NUMBER (BOTTOM)
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- ME = MATCH EXISTING
- EOF = EMERGENCY OVERFLOW
- TW = FINISH GRADE AT HIGH SIDE OF WALL
- BW = FINISH GRADE AT LOW SIDE OF WALL
- PROPOSED GRADING LIMITS
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED WATERMAIN
- PROPOSED DRAINILE / FINGER DRAIN
- PROPOSED MANHOLE (MH)
- PROPOSED CATCH BASIN (CB)
- ★

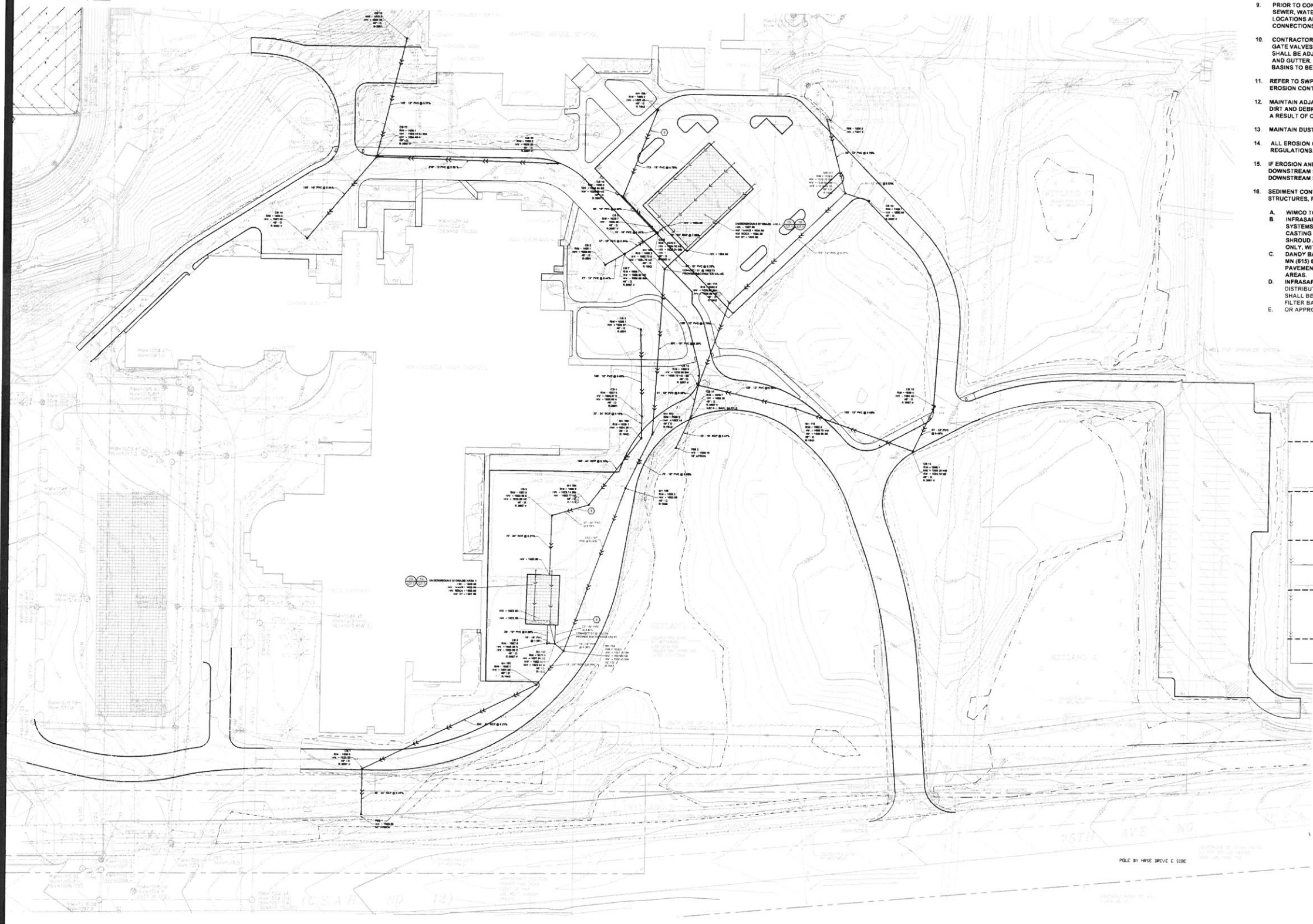
PROPOSED RISER INLET (RI)
- PROPOSED SURGE BASIN (SB)
- PROPOSED FLARED END SECTION (FES)
- PROPOSED UNDERGROUND STORAGE UNITS
- +

PROPOSED HYDRANT (HYD)
- +

PROPOSED GATE VALVE (GV)
- PROPOSED POST INDICATOR VALVE (PIV)
- ①

PROVIDE MINIMUM 18" VERTICAL SEPARATION AT CROSSING - PROVIDE VERTICAL BENDS IN WATERMAIN AS REQUIRED TO ACCOMPLISH
- ②

SEDIMENT CONTROL DEVICE AT STORM SEWER INLET
- PROPERTY LINE



1. REFER TO SHEET T1.0, TITLE SHEET, FOR GENERAL NOTES.
2. ALL WATERMAIN PIPE SHALL BE DIP, CLASS 52. ALL WATERMAIN SHALL HAVE MINIMUM 8" 0" BURY (TOP OF PIPE TO FINISH GRADE). DIP SHALL BE ENCASED WITH POLYETHYLENE FILM CONFORMING TO ASTM D 1248-889.
3. ALL SANITARY SEWER PIPE SHALL BE PVC PIPE (ASTM D 3034, SDR 35), UNLESS OTHERWISE NOTED. SANITARY SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH ASTM D2321.
4. ALL STORM SEWER PIPE SHALL BE RCP, CLASS III (MIN.), WITH FLEXIBLE WATERTIGHT JOINTS IN ACCORDANCE WITH ASTM C-361 OR PVC PIPE (ASTM D3034, SDR 35), UNLESS OTHERWISE NOTED.
5. FLEXIBLE JOINTS AT STORM SEWER PIPE CONNECTIONS TO STRUCTURES:
a. IN ACCORDANCE WITH MINNESOTA RULES 4715.0700 AND 4715.0750, PROVIDE FLEXIBLE JOINTS AT ALL PIPE CONNECTIONS TO ALL STORM SEWER STRUCTURES.
b. ACCEPTABLE MANUFACTURERS / PRODUCTS:
i. FERNCO, "CONCRETE MANHOLE ADAPTORS" OR "LARGE-DIAMETER WATERSTOPS"
ii. PRESS-SEAL, WATERSTOP GROUTING RINGS"
iii. OR APPROVED EQUAL.
6. WATERMAIN SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAINILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION PER MN RULES 4715.1710, SUBPART 3. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
7. ANY MANHOLE, CATCH BASIN, STORM SEWER, SANITARY SEWER, DRAINILE OR OTHER POTENTIAL SOURCE FOR CONTAMINATION SHALL BE INSTALLED AT LEAST 10 FEET HORIZONTALLY FROM ANY WATERMAIN PER MN RULES 4715.1710, SUBPART 3. THIS ISOLATION DISTANCE SHALL BE MEASURED FROM THE OUTER EDGE OF THE PIPE TO THE OUTER EDGE OF THE CONTAMINATION SOURCE (OUTER EDGE OF STRUCTURES OR PIPING OR SIMILAR).
8. LOCATE ALL EXISTING UTILITIES. VERIFY LOCATION, SIZE AND INVERT ELEVATION OF ALL EXISTING UTILITIES. VERIFY LOCATIONS, SIZES AND ELEVATIONS OF SAME BEFORE BEGINNING CONSTRUCTION.
9. PRIOR TO CONSTRUCTION OF PROPOSED BUILDING UTILITY SERVICES (STORM, SANITARY SEWER, WATERMAIN), VERIFY ALL PROPOSED BUILDING UTILITY SERVICE PIPE SIZES, LOCATIONS AND ELEVATIONS WITH MECHANICAL PLANS. COORDINATE CONSTRUCTION AND CONNECTIONS WITH MECHANICAL CONTRACTOR.
10. CONTRACTOR SHALL STAKE LIMITS OF WALKS AND CURBING PRIOR TO INSTALLATION OF GATE VALVES, CATCH BASINS AND MANHOLES. GATE VALVE AND MANHOLE LOCATIONS SHALL BE ADJUSTED TO AVOID PLACEMENT OF THESE STRUCTURES IN WALKS AND CURB AND GUTTER. CURB AND GUTTER SHALL BE STAKED TO ALLOW CURB INLET TYPE CATCH BASINS TO BE PROPERLY LOCATED IN LINE WITH CURBING.
11. REFER TO SWPPP NARRATIVE (SECTION 01 89 13) FOR CONSTRUCTION SEQUENCING AND EROSION CONTROL REQUIREMENTS.
12. MAINTAIN ADJACENT PROPERTY AND PUBLIC STREETS CLEAN FROM CONSTRUCTION CAUSED DIRT AND DEBRIS ON A DAILY BASIS. PROTECT DRAINAGE SYSTEMS FROM SEDIMENTATION AS A RESULT OF CONSTRUCTION RELATED DIRT AND DEBRIS.
13. MAINTAIN DUST CONTROL DURING GRADING OPERATIONS.
14. ALL EROSION CONTROL METHODS SHALL COMPLY WITH MPCA AND OTHER LOCAL REGULATIONS.
15. IF EROSION AND SEDIMENT CONTROL MEASURES TAKEN ARE NOT ADEQUATE AND RESULT IN DOWNSTREAM SEDIMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT DOWNSTREAM STORM SEWERS AS NECESSARY, INCLUDING ASSOCIATED RESTORATION.
16. SEDIMENT CONTROL DEVICE AT STORM SEWER INLETS. AT THE INLETS TO ALL STORM SEWER STRUCTURES, PROVIDE A PRODUCT FROM THE FOLLOWING LIST. ACCEPTABLE PRODUCTS:
A. WIMCO TOP SLAB™ MODEL RD 27.
B. INFRASAFEB SEDIMENT CONTROL BARRIER, DISTRIBUTED BY ROYAL ENVIRONMENTAL SYSTEMS, INC. SCB'S SHALL BE SIZED SPECIFICALLY FOR THE STRUCTURE AND CASTING SPECIFIED. SCB'S SHALL BE EQUIPPED WITH FRAME AND PERFORATED SHROUD AND SHALL BE WRAPPED ON THE OUTSIDE, COVERING THE PERFORATED WALL ONLY, WITH A GEOTEXTILE SOCK.
C. DANDY BAGS OR DANDY BAG HS DISTRIBUTED BY BROCK WHITE COMPANY, ST. PAUL, MN (615) 847-9950. DANDY BAG SHALL BE USED ONLY FOR CURB INLETS AFTER PAVEMENT (BINDER COURSE OR WEAR COURSE) IS INSTALLED OR AT EXISTING PAVED AREAS.
D. INFRASAFEB DEBRIS COLLECTION DEVICE BY ROYAL ENVIRONMENTAL SYSTEMS, INC., DISTRIBUTED BY ESS BROTHERS, 9350 COUNTY ROAD 19, CORCORAN, MN 55357 DCD'S SHALL BE SIZED SPECIFICALLY FOR THE STRUCTURE AND CASTING SPECIFIED. PROVIDE FILTER BAGS AND TIES FOR COMPLETE INSTALLATION.
E. OR APPROVED EQUAL.

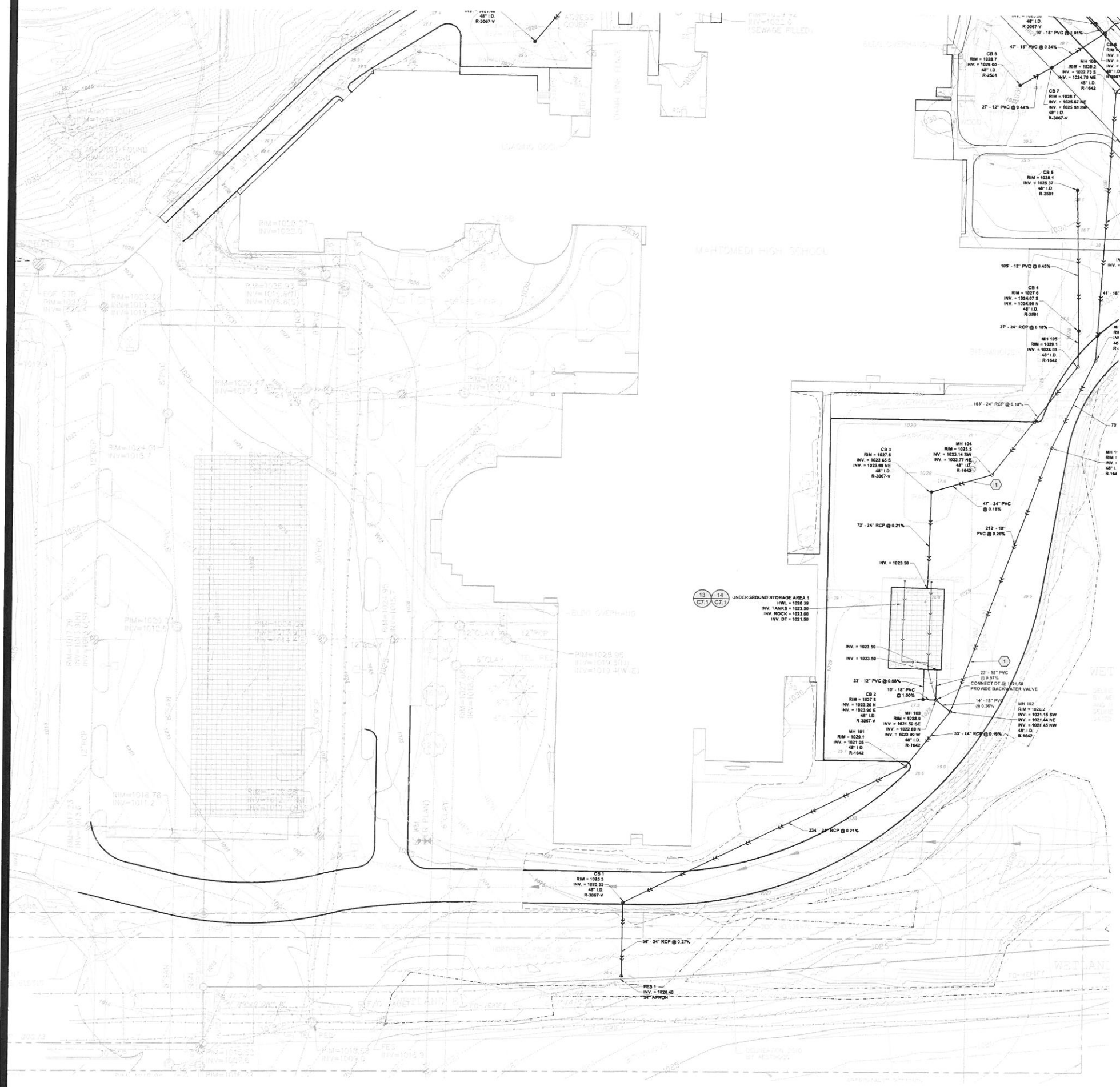
OVERALL UTILITY PLAN

I hereby certify that this plan, specification, and report were prepared by me or under my direct supervision and that I am a duly licensed Professional Engineer in the State of Minnesota.

DAVID A. REY
Reg. No. 40180 Date XX/XX/XX

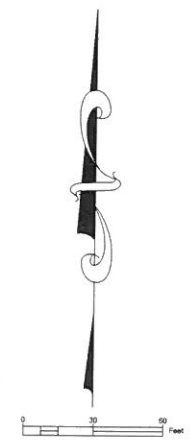
2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

NOT FOR CONSTRUCTION



- NOTES**
1. REFER TO SHEET T1.0, TITLE SHEET, FOR GENERAL NOTES.
 2. REFER TO SHEET C5.1, OVERALL UTILITY PLAN, FOR UTILITY NOTES.

- LEGEND**
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 - PROPOSED UNDERGROUND STORAGE UNITS
 - PROPOSED HYDRANT (HYD)
 - PROPOSED GATE VALVE (GV)
 - PROPOSED POST INDICATOR VALVE (PIV)
 - PROVIDE MINIMUM 18" VERTICAL SEPARATION AT CROSSING - PROVIDE VERTICAL BENDS IN WATERMAIN AS REQUIRED TO ACCOMPLISH
 - SEDIMENT CONTROL DEVICE AT STORM SEWER INLET
 - PROPERTY LINE



NOT FOR CONSTRUCTION

2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

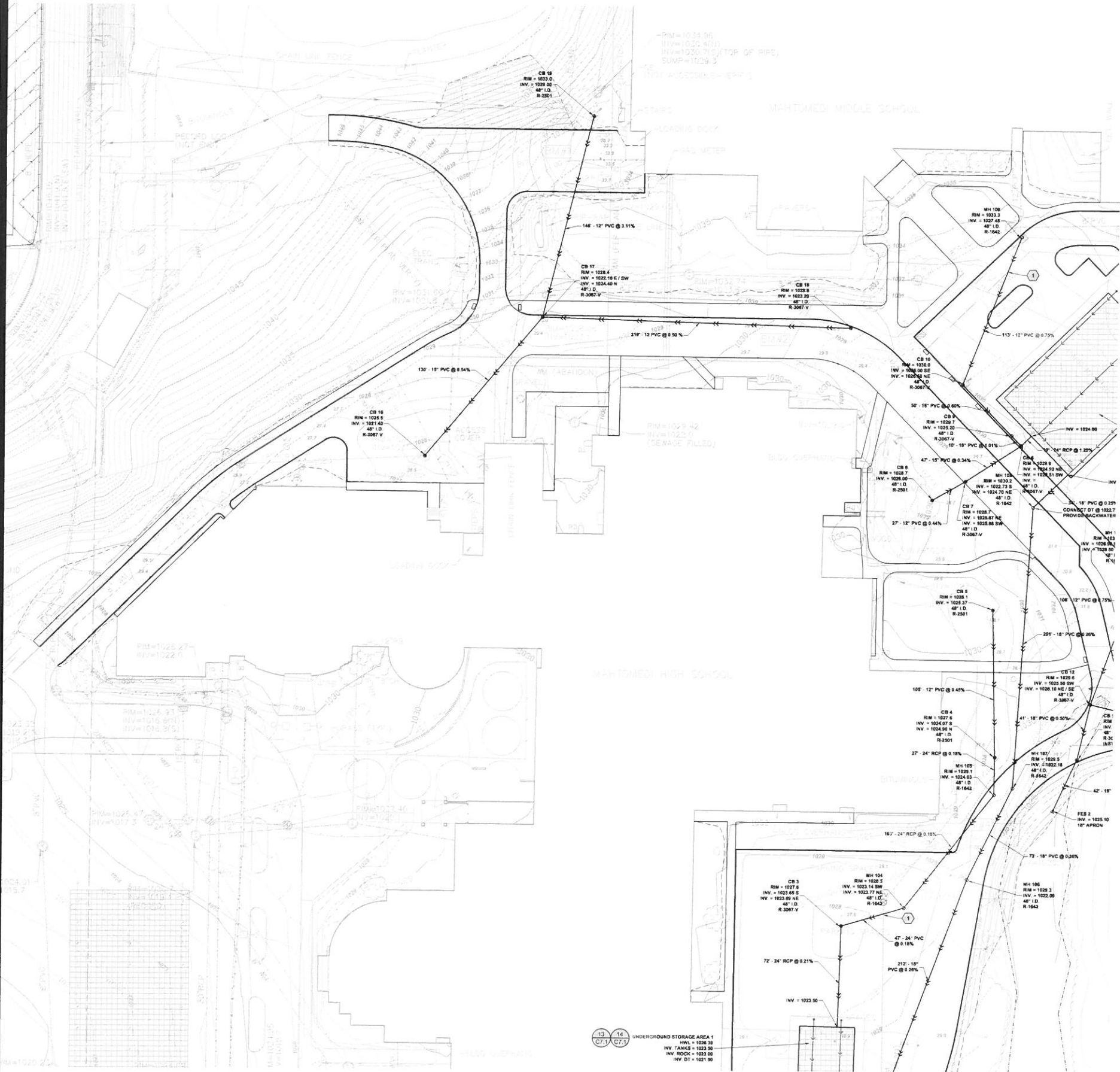
Sheet **C5.2** of

UTILITY PLAN

I hereby certify that this plan, specification and report was prepared by me or under my supervision and that I am a duly licensed Professional Engineer under the laws of the State of Minnesota.

DAVID A. REY
Reg. No. 401180 Date XX/XX/XX

Project No.	15128
Date	1/10/2018
Drawn By	JL
Checked By	JL
Revisions	



- NOTES**
1. REFER TO SHEET T1.0, TITLE SHEET, FOR GENERAL NOTES.
 2. REFER TO SHEET CS.1, OVERALL UTILITY PLAN, FOR UTILITY NOTES.

- LEGEND**
- REFERENCE KEY TO SITE DETAILS
DETAIL I.D. NUMBER (TOP)
DETAIL SHEET NUMBER (BOTTOM)
 - EXISTING CONTOUR
 - EXISTING SPOT ELEVATION
 - PROPOSED CONTOUR
 - PROPOSED SPOT ELEVATION
ME = MATCH EXISTING
EOP = EMERGENCY OVERFLOW
TW = FINISH GRADE AT HIGH SIDE OF WALL
BW = FINISH GRADE AT LOW SIDE OF WALL
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 - PROPOSED DRAIN TILE / FINGER DRAIN
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 - PROPOSED POST INDICATOR VALVE (PIV)
 - PROVIDE MINIMUM 18" VERTICAL SEPARATION AT CROSSING - PROVIDE VERTICAL BENDS IN WATERMAIN AS REQUIRED TO ACCOMPLISH
 - SEDIMENT CONTROL DEVICE AT STORM SEWER INLET
 - PROPERTY LINE

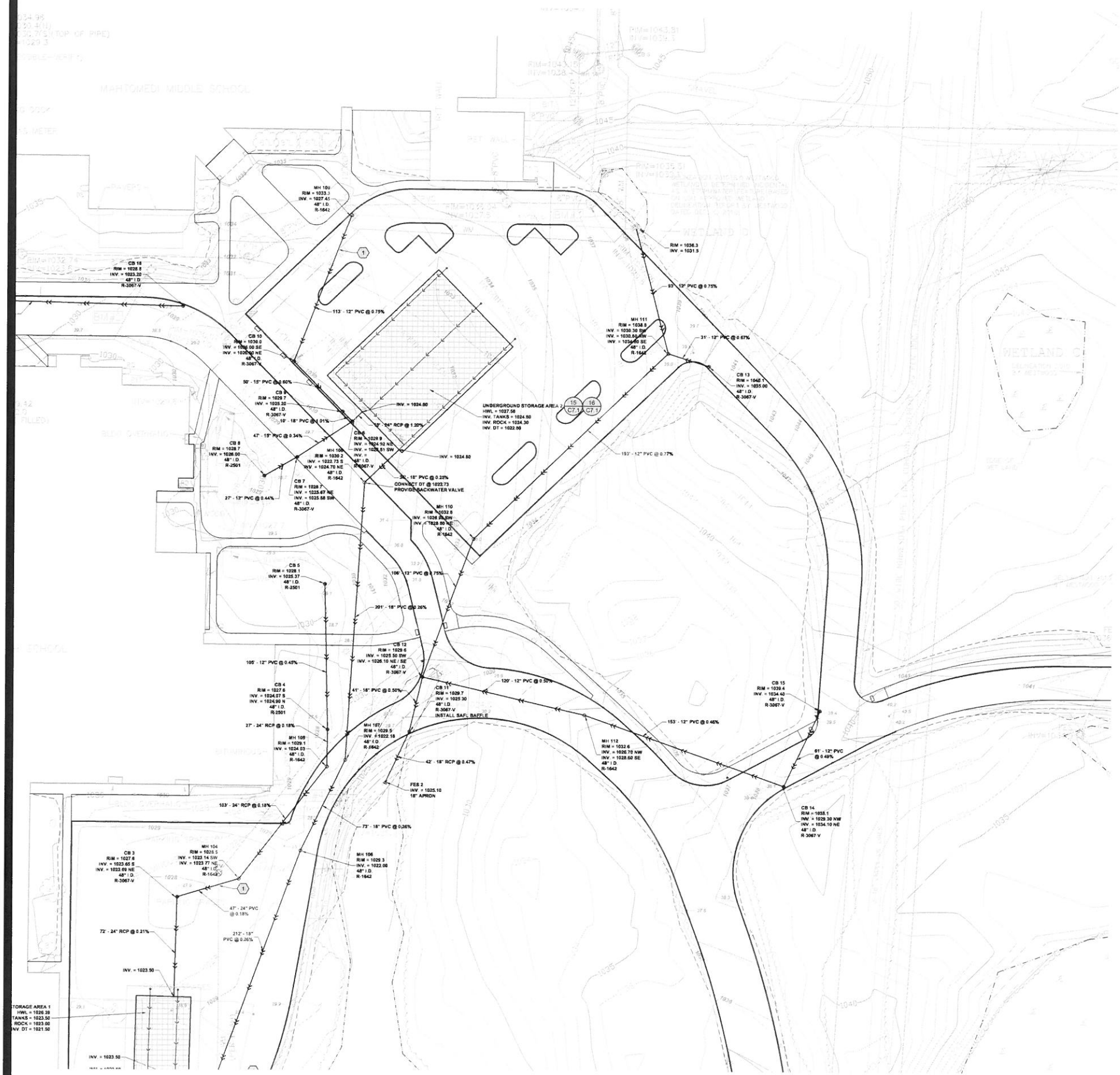
UTILITY PLAN

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DAVID A. KEY
Reg. No. 40180 Date XX/XX/XX

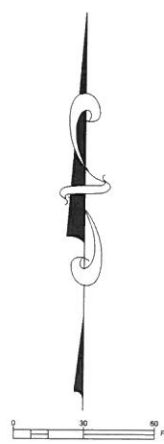
2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

NOT FOR CONSTRUCTION



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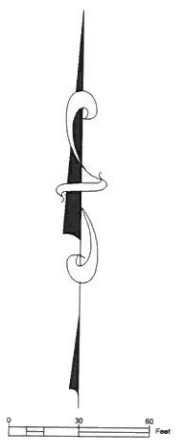
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Project No.	3318
Date	1/10/2018
Drawn By	JDL
Checked By	
Revisions	

UTILITY PLAN

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DAVID A. REY
Reg. No. 43180 Date XX/XX/XX

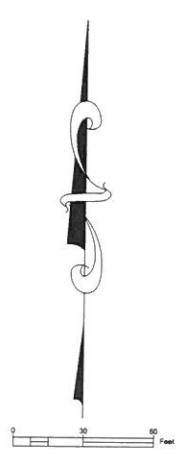
2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

NOT FOR CONSTRUCTION



- NOTES**
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 2. REFER TO SHEET C5.1, OVERALL UTILITY & EROSION CONTROL PLAN, FOR UTILITY NOTES.

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NOT FOR CONSTRUCTION

NOTES

1. REFER TO SHEET T1 0, TITLE SHEET, FOR GENERAL NOTES.
2. REFER TO SWPPP NARRATIVE (SECTION 01 89 13) FOR CONSTRUCTION SEQUENCING AND EROSION CONTROL REQUIREMENTS.
3. MAINTAIN ADJACENT PROPERTY AND PUBLIC STREETS CLEAN FROM CONSTRUCTION CAUSED DIRT AND DEBRIS ON A DAILY BASIS. PROTECT DRAINAGE SYSTEMS FROM SEDIMENTATION AS A RESULT OF CONSTRUCTION RELATED DIRT AND DEBRIS.
4. MAINTAIN DUST CONTROL DURING GRADING OPERATIONS.
5. ALL EROSION CONTROL METHODS SHALL COMPLY WITH MPCA AND OTHER LOCAL REGULATIONS.
6. IF EROSION AND SEDIMENT CONTROL MEASURES TAKEN ARE NOT ADEQUATE AND RESULT IN DOWNSTREAM SEDIMENT, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT DOWNSTREAM STORM SEWERS AS NECESSARY, INCLUDING ASSOCIATED RESTORATION.
7. SEDIMENT CONTROL DEVICE AT STORM SEWER INLETS. AT THE INLETS TO ALL STORM SEWER STRUCTURES, PROVIDE A PRODUCT FROM THE FOLLOWING LIST. ACCEPTABLE PRODUCTS:
 - A. WIMCO TOP SLAB™ MODEL RD 27.
 - B. INFRASAFE® SEDIMENT CONTROL BARRIER, DISTRIBUTED BY ROYAL ENVIRONMENTAL SYSTEMS, INC. SCB'S SHALL BE SIZED SPECIFICALLY FOR THE STRUCTURE AND CASTING SPECIFIED. SCB'S SHALL BE EQUIPPED WITH FRAME AND PERFORATED SHROUD AND SHALL BE WRAPPED ON THE OUTSIDE, COVERING THE PERFORATED WALL ONLY, WITH A GEOTEXTILE SOCK.
 - C. DANDY BAGS OR DANDY BAG IIS DISTRIBUTED BY BROCK WHITE COMPANY, ST. PAUL, MN (615) 847-0950. DANDY BAG SHALL BE USED ONLY FOR CURB INLETS AFTER PAVEMENT (BINDER COURSE OR WEAR COURSE) IS INSTALLED OR AT EXISTING PAVED AREAS.
 - D. INFRASAFE® DEBRIS COLLECTION DEVICE BY ROYAL ENVIRONMENTAL SYSTEMS, INC. DISTRIBUTED BY ESS BROTHERS, 9350 COUNTY ROAD 19, CORCORAN, MN 55357 DCD'S SHALL BE SIZED SPECIFICALLY FOR THE STRUCTURE AND CASTING SPECIFIED. PROVIDE FILTER BAGS AND TIES FOR COMPLETE INSTALLATION.
 - E. OR APPROVED EQUAL.

APPROXIMATE EROSION CONTROL
DEVICE QUANTITIES

SILT FENCE = 3,800 L.F.

SEDIMENT CONTROL LOG = XXX L.F.

ROCK CONSTRUCTION ENTRANCE = 34 C.Y.

EROSION CONTROL BLANKET = 850 S.Y.

SEDIMENT CONTROL DEVICE AT STORM SEWER INLET = 32

LEGEND

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- PROPOSED BUILDING STOOP - REFER TO ARCHITECTURAL PLANS
- PROPERTY LINE

OVERALL EROSION CONTROL PLAN

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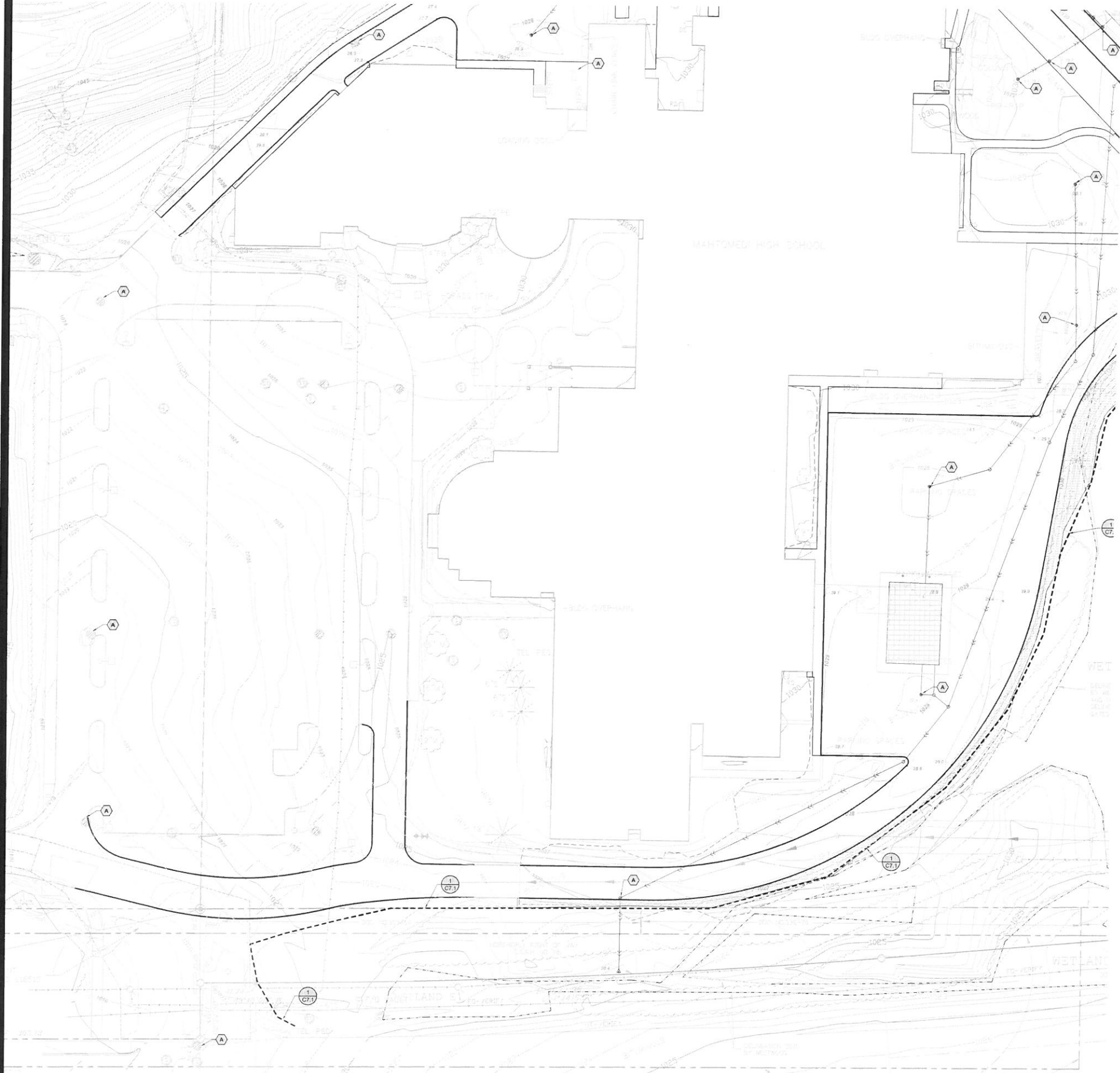
Rep. No. 40188 Date XX/XX/XX

SAVO A. REV

2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

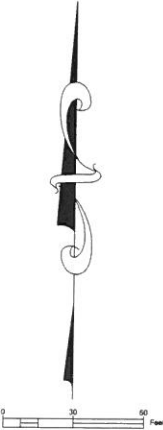
Sheet
C6.1
of

NOT FOR CONSTRUCTION



- NOTES**
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NOT FOR CONSTRUCTION

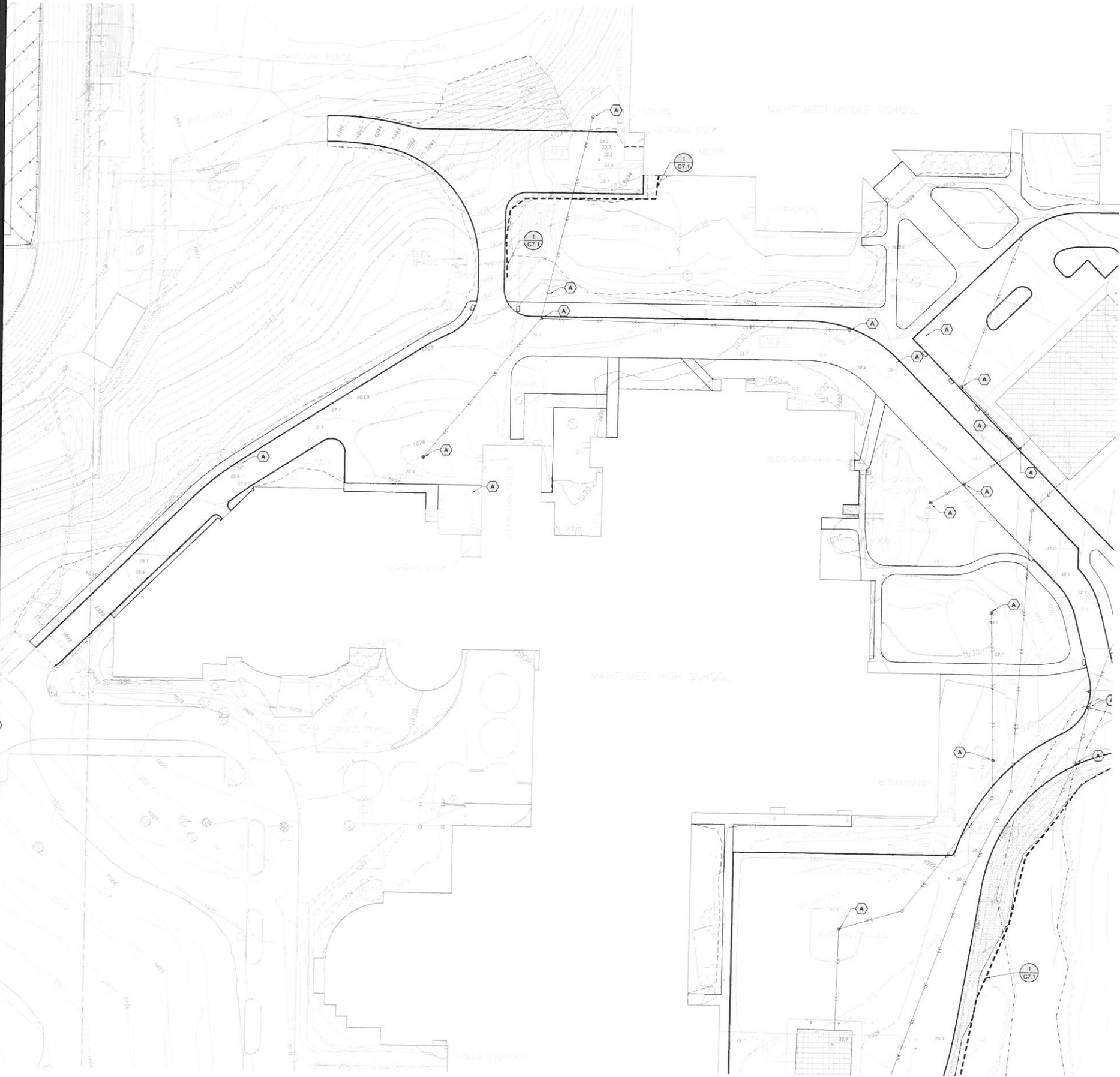
Project No.	15138
Date	11/09/2018
Drawn By	JLD
Checked By	
Revisions	

EROSION CONTROL PLAN

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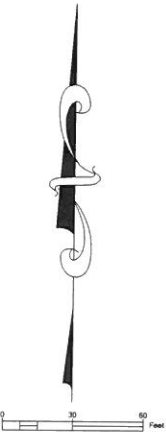
DAVID A. REY
Reg. No. 45193 Date 03/14/XX

2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN



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Project No.	15126
Date	11/08/2018
Drawn By	JDL
Checked By	
Revisions	

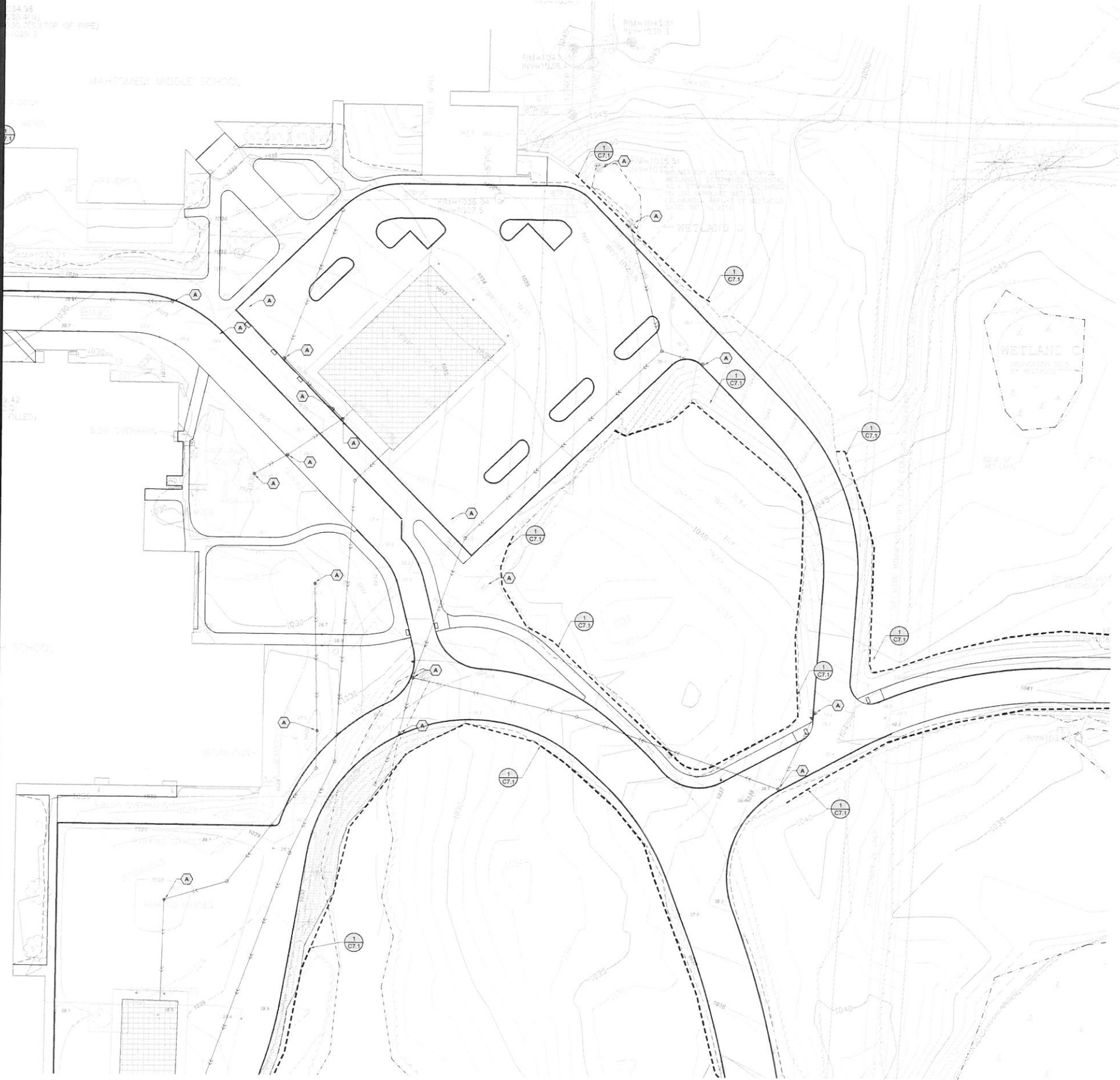
EROSION CONTROL PLAN

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DAVID A. REY
Reg. No. 40180 Date 8/22/20

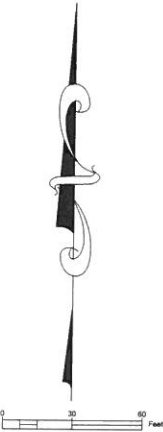
2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

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Project No.	15136
Date	11/08/2018
Drawn By	JDL
Revisions	

EROSION CONTROL PLAN

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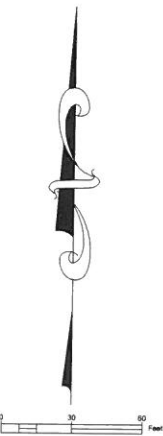
DAVID A. REY
Reg. No. 40183 Date XX/XX/XX

2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN



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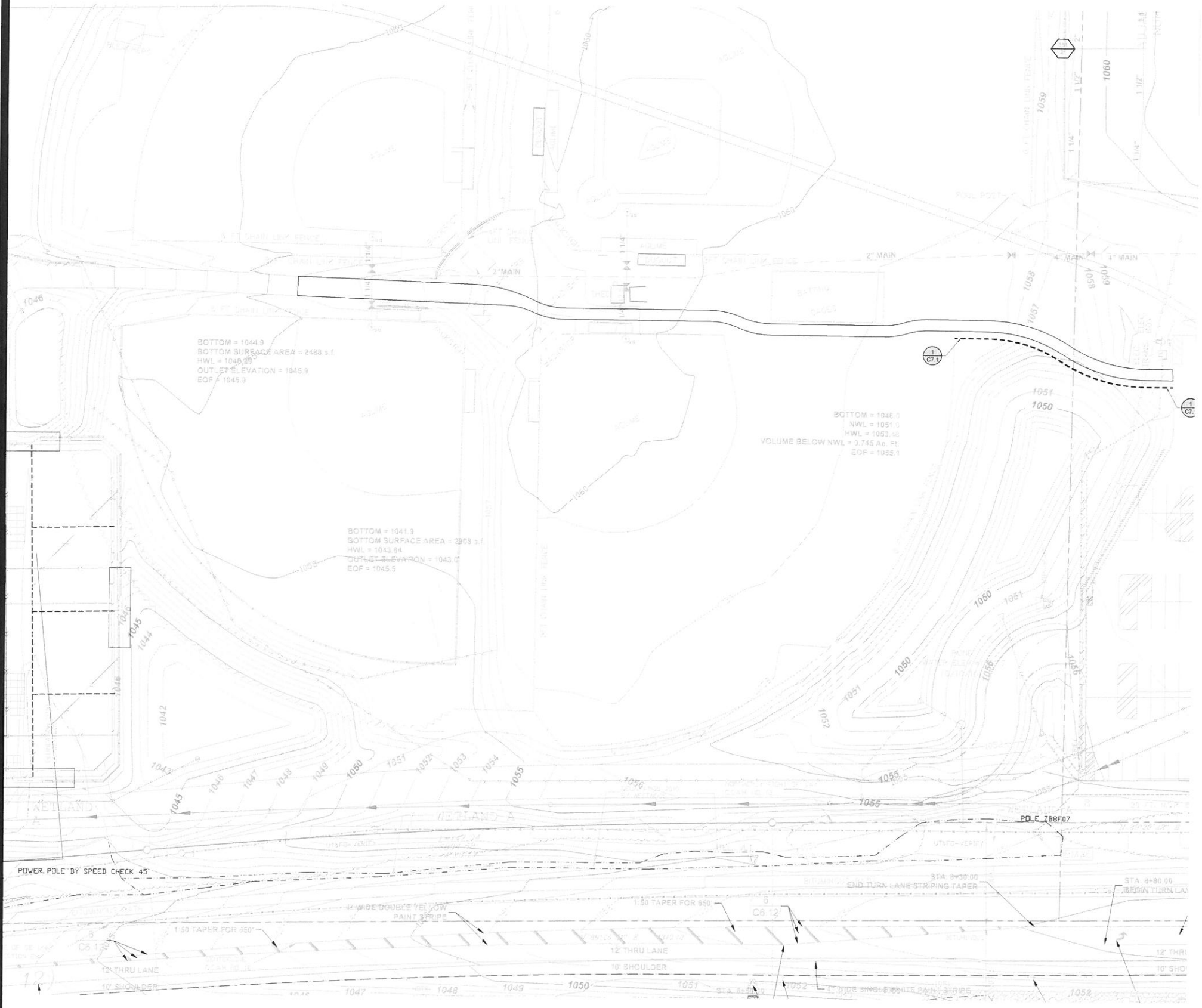
Project No.	18138
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Drawn By	JL
Checked By	
Revisions	

EROSION CONTROL PLAN

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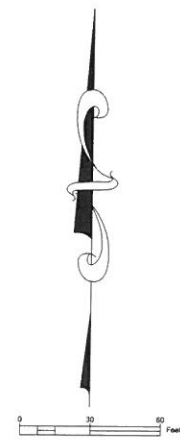
DAVID A. REY
Reg. No. 40135 Date 11/11/18

2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
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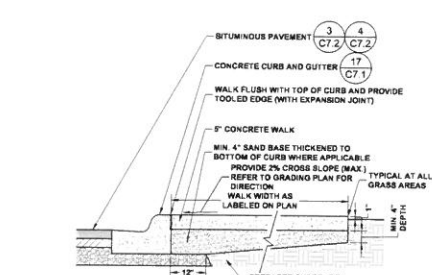
EROSION CONTROL PLAN

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DAVID A. REY
Reg. No. 40180 Date XX/XX/XX

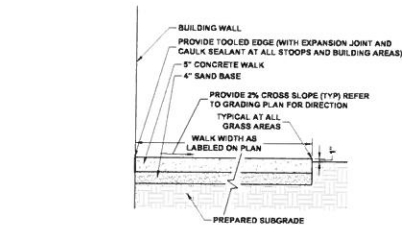
2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

Sheet **C6.6** of



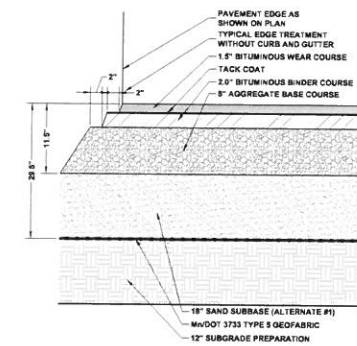
NOTE: PROVIDE WIRE MESH REINFORCEMENT IN PANELS WITH DIMENSIONS TO JOINTS GREATER THAN 8' - REINFORCEMENT SHALL BE UNIFORMLY SUSPENDED 2" BELOW CONCRETE FINISH GRADE.

1
C7.2
CONCRETE WALK

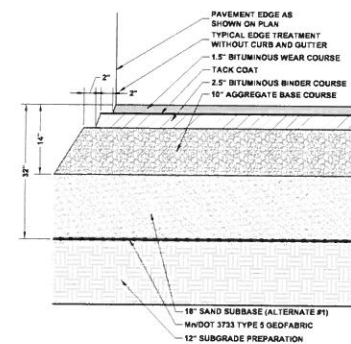


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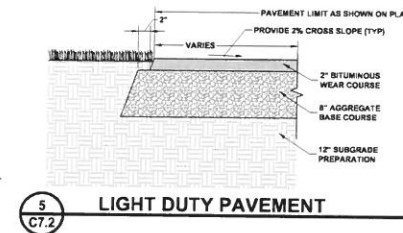
2
C7.2
CONCRETE WALK



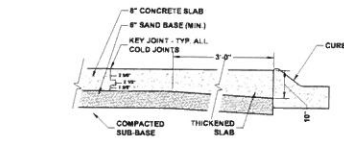
3
C7.2
MEDIUM DUTY PAVEMENT
AFFECTED BY ALTERNATE BID



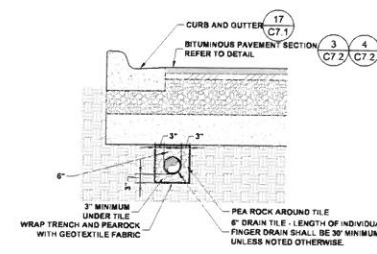
4
C7.2
HEAVY DUTY PAVEMENT
AFFECTED BY ALTERNATE BID



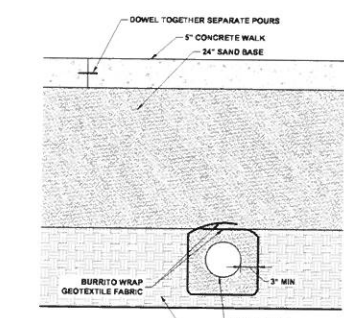
5
C7.2
LIGHT DUTY PAVEMENT



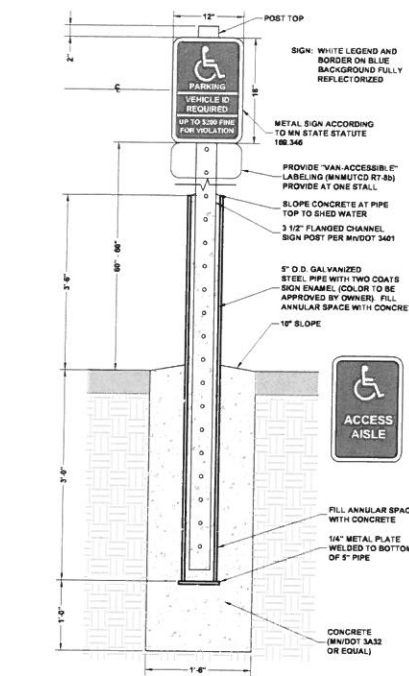
6
C7.2
CONCRETE SLAB



7
C7.2
FINGER DRAIN

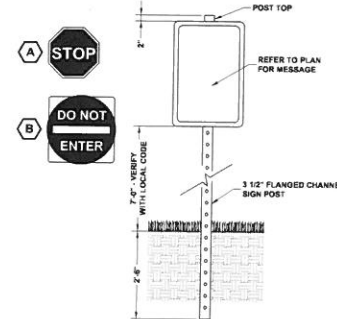


8
C7.2
CONCRETE WALK WITH DT



NOTE: SIGN SHALL BE PLACED NOT MORE THAN 96" FROM FACE OR EDGE OF PAVEMENT AT THE ACCESSIBLE STALL.

9
C7.2
ACCESSIBLE PARKING SIGN
AND POST



10
C7.2
TRAFFIC SIGN

Project No.	15128
Date	1/10/2018
By	CK
Revisions	

SITE PLAN

I hereby certify that this plan, specification, and report were prepared by me or under my direct supervision and that I am a duly licensed professional engineer under the laws of the State of Minnesota.

DAVID A. REY
Reg. No. 40180 Date XX/XX/XX

2017 MAHTOMEDI SCHOOLS PAVEMENT RECONSTRUCTION
MAHTOMEDI HIGH SCHOOL AND MAHTOMEDI MIDDLE SCHOOL
GRANT, MN

C7.2

NOT FOR CONSTRUCTION