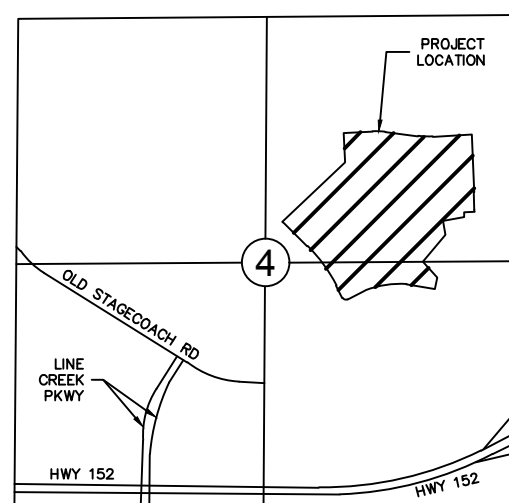


PROJECT TEAM & UTILITY CONTACT LIST

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SECTION 4, T51N, R33W
VICINITY MAP
NOT TO SCALE

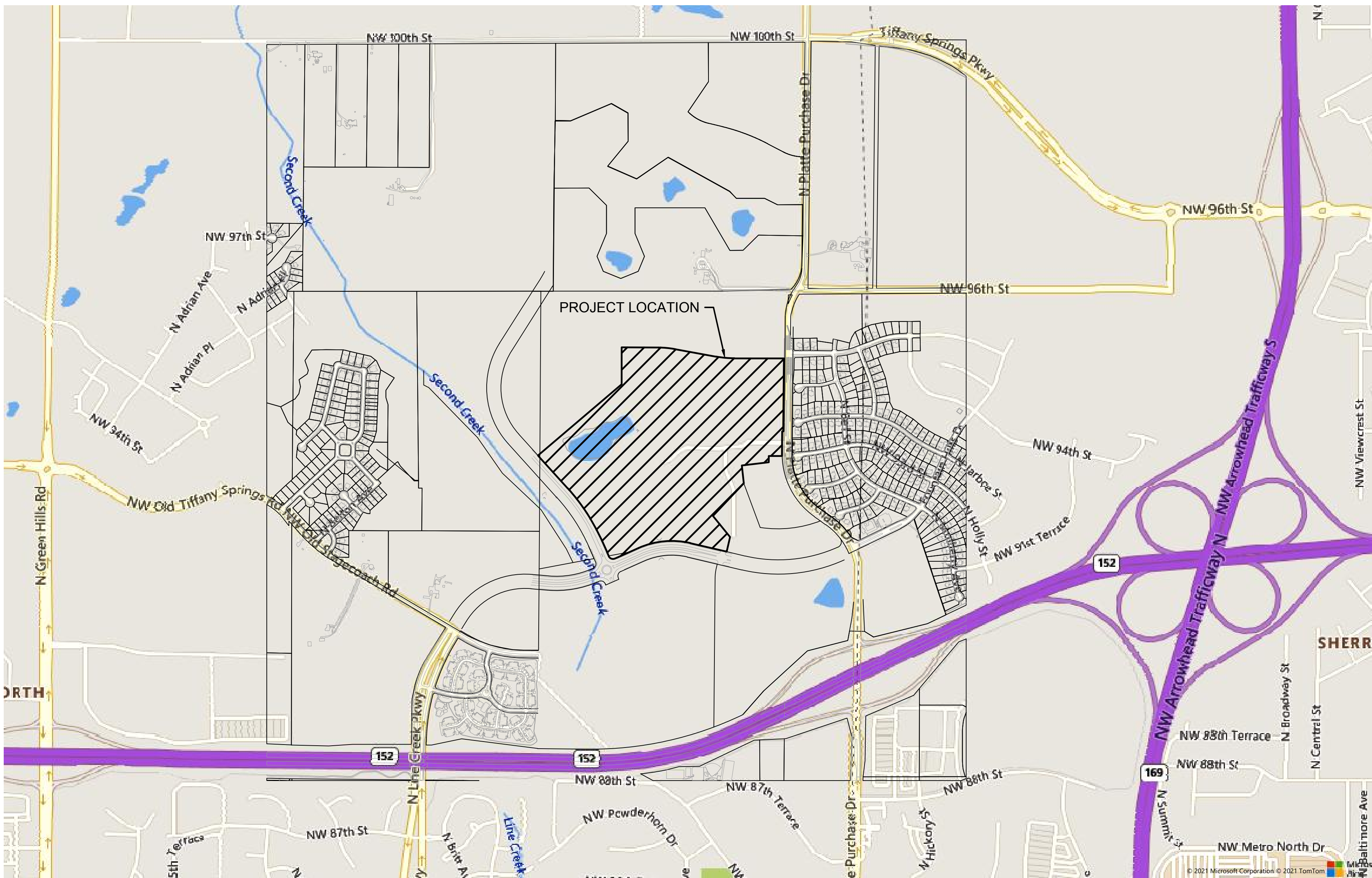
SITE DEVELOPMENT PLANS FOR PLATTE COUNTY R3

A SUBDIVISION LYING IN THE NORTHEAST & SOUTHEAST 1/4 OF SECTION 4, TOWNSHIP 51N, RANGE 33W IN THE CITY OF KANSAS CITY, PLATTE COUNTY, MISSOURI

NO.	TITLE
C100	COVER SHEET
C101	GENERAL NOTES
C102	EXISTING CONDITIONS
C103	GENERAL LAYOUT
C301	DIMENSION PLAN
C302	DIMENSION PLAN
C303	DIMENSION PLAN
C304	DIMENSION PLAN
C305	DIMENSION PLAN
C306	DIMENSION PLAN
C307	DIMENSION PLAN
C308	DIMENSION PLAN
C309	DIMENSION PLAN
C310	SIGNING & STRIPING PLAN
C311	SITE DETAILS
C312	SITE DETAILS
C400	GENERAL GRADING PLAN
C401	GRADING PLAN
C402	GRADING PLAN
C403	GRADING PLAN
C404	GRADING PLAN
C405	GRADING PLAN
C406	GRADING PLAN
C407	GRADING PLAN
C408	GRADING PLAN
C409	GRADING PLAN
C410	GRADING PLAN
C411	GRADING PLAN
C412	DOCK AREA GRADING DETAIL
C413	NORTH ENTRY GRADING DETAIL
C414	NORTH PLAZA GRADING DETAIL
C415	WEST ENTRY AND OUTDOOR CLASSROOM GRADING DETAIL
C416	SOUTH ENTRY GRADING DETAIL
C417	SOUTH PLAZA GRADING DETAIL
C418	SOUTH ENTRY SPEED TABLE GRADING DETAIL
C419	ACCESSIBLE PARKING GRADING DETAIL
C420	SOUTH SIDEWALK RAMPS GRADING DETAIL
C421	PARENT ENTRY & SIDEWALK RAMPS GRADING DETAIL
C422	SOUTH SPEED TABLE & SIDEWALK RAMPS GRADING DETAIL
C423	BID ALT SPEED TABLE & SIDEWALK RAMPS GRADING DETAIL
C424	WEST DRIVE APPROACH & SIDEWALK RAMP GRADING DETAIL
C500	GENERAL STORM SEWER PLAN
C501	STORM SEWER PLAN & PROFILE - LINE A
C502	STORM SEWER PLAN & PROFILE - LINE B
C503	STORM SEWER PLAN & PROFILE - LINE C
C504	STORM SEWER PLAN & PROFILE - LINE D
C505	STORM SEWER PLAN & PROFILE - LINE E
C506	STORM SEWER PLAN & PROFILE - LINE F
C507	STORM SEWER PLAN & PROFILE - LINE G
C508	STORM SEWER PLAN & PROFILE - LINE H & I
C509	STORM SEWER PLAN & PROFILE - LINE J
C510	STORM SEWER PLAN - DRAIN BASINS
C511	STORM SEWER PLAN - DRAIN BASINS
C512	STORM SEWER PLAN - BUILDING CONNECTIONS
C513	STORMWATER CALCULATIONS
C514	STORM SEWER DETAILS
C515	STORM SEWER DETAILS
C600	GENERAL SANITARY SEWER PLAN
C601	SANITARY SEWER PLAN & PROFILE (LINE 1)
C602	SANITARY SEWER PLAN & PROFILE (LINE 1)
C603	SANITARY SEWER PLAN & PROFILE (LINE 1)
C604	SANITARY SEWER PLAN & PROFILE (LINE 1)
C605	SANITARY SEWER PLAN & PROFILE (LINE 2)
C606	SANITARY SEWER PLAN & PROFILE (LINE 2)
C607	SANITARY SEWER DETAILS
C700	GENERAL WATER PLAN
C701	WATER MAIN PLAN & PROFILE (LINE 1)
C702	WATER MAIN PLAN & PROFILE (LINE 1)
C703	WATER MAIN PLAN & PROFILE (LINE 1)
C704	WATER MAIN PLAN & PROFILE (LINES 2 & 3)
C705	WATER MAIN PLAN & PROFILE (LINES 3 & 4)
C706	WATER DETAILS
C800	GENERAL DRY UTILITY PLAN

NO.	TITLE
ES101	SITE LIGHTING PHOTOMETRICS PLAN
ES102	SITE LIGHTING PHOTOMETRICS PLAN
ES201	SITE LIGHTING POWER PLAN
ES202	SITE LIGHTING POWER PLAN
ES301	SITE LIGHTING DETAILS
ES302	SITE LIGHTING DETAILS
ES401	SITE LIGHTING SPECIFICATIONS
L000	PROJECT SHEET
L100	OVERALL HARDSCAPE PLAN
L101	HARDSCAPE PLAN
L102	HARDSCAPE PLAN
L103	HARDSCAPE PLAN
L104	HARDSCAPE PLAN
L105	HARDSCAPE PLAN
L190	HARDSCAPE DETAILS
L200	OVERALL LANDSCAPE PLAN
L201	LANDSCAPE OVERSTORY PLAN
L210	LANDSCAPE UNDERSTORY PLAN
L211	LANDSCAPE UNDERSTORY PLAN
L212	LANDSCAPE UNDERSTORY PLAN
L213	LANDSCAPE UNDERSTORY PLAN
L214	LANDSCAPE UNDERSTORY PLAN
L215	LANDSCAPE UNDERSTORY PLAN
L216	LANDSCAPE UNDERSTORY PLAN
L217	LANDSCAPE UNDERSTORY PLAN
L218	LANDSCAPE UNDERSTORY PLAN
L290	LANDSCAPE DETAILS
L300	OVERALL IRRIGATION PLAN
L301	IRRIGATION MAINLINE & CONTROL WIRE PLAN
L302	IRRIGATION PLAN
L303	IRRIGATION PLAN
L304	IRRIGATION PLAN
L305	IRRIGATION PLAN
L306	IRRIGATION PLAN
L307	IRRIGATION PLAN
L308	IRRIGATION PLAN
L390	IRRIGATION DETAILS
L391	IRRIGATION DETAILS AND SCHEDULE
PF100	OVERALL TRACK & PLAYING FIELD PLAN
PF101	PLAYING FIELD LAYOUT PLAN
PF102	PLAYING FIELD GRADING PLAN
PF103	PLAYING FIELD SUB-DRAINAGE PLAN
PF104	PLAYING FIELD UTILITY PLAN
PF105	THROWING & JUMPING LAYOUT PLAN
PF200	PLAYING FIELD DETAILS
PF201	PLAYING FIELD DETAILS

BENCHMARK
"X" CUT ON NORTH TOP FLANG BOLT ON SOUTHEAST AREA OF ROUNDABOUT FIRE HYDRANT ELEV. = 1038.75



PROPERTY DESCRIPTION:
A TRACT OF LAND BEING SITUATED IN THE NORTHEAST AND SOUTHEAST QUARTERS OF SECTION 4, TOWNSHIP 51 NORTH, RANGE 33 WEST IN THE CITY OF KANSAS CITY, PLATTE COUNTY, MISSOURI, SAID TRACT OF LAND BEING A PORTION OF THAT CERTAIN TRACT OF LAND DESCRIBED AS SET FORTH AS TRACT X IN THE QUIT CLAIM DEED FILED NOVEMBER 29, 2001 IN THE OFFICE OF THE RECORDER OF DEEDS FOR SAID COUNTY AND STATE IN BOOK 959 AT PAGE 389. SAID TRACT OF LAND BEING NOW MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING AT THE NORTHWEST CORNER OF THE NORTHEAST QUARTER OF AFORESAID SECTION 4 (NORTH QUARTER CORNER); THENCE S 00°21'15" W ALONG THE WEST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 4, A DISTANCE OF 1,746.30 FEET TO THE POINT OF BEGINNING OF THE TRACT OF LAND TO BE HEREIN DESCRIBED; THENCE S 42°05'25" E, 436.76 FEET; THENCE SOUTHEASTERLY ALONG A CURVE TO THE RIGHT, TANGENT TO THE LAST DESCRIBED COURSE, HAVING A RADIUS OF 2,076.00 FEET AND A CENTRAL ANGLE OF 18°06'11", AN ARC LENGTH OF 655.92 FEET; THENCE S 23°59'14" E, TANGENT TO THE LAST DESCRIBED COURSE, A DISTANCE OF 177.35 FEET TO A POINT ON THE NORTH LINE OF THAT CERTAIN TRACT OF LAND DESCRIBED AS SET FORTH IN THE MISSOURI SPECIAL WARRANTY DEED RECORDED JULY 31, 2017 IN THE AFORESAID OFFICE OF THE RECORDER OF DEEDS IN BOOK 1282 AT PAGE 926; THENCE N 79°23'32" E (N 79°22'24" E, DEED) ALONG THE NORTH LINE OF THE PARCEL OF LAND DESCRIBED AS SET FORTH IN SAID MISSOURI SPECIAL WARRANTY DEED, A DISTANCE OF 227.23 FEET; THENCE N 86°00'46" E, DEPARTING FROM THE NORTH LINE OF THE PARCEL OF LAND DESCRIBED AS SET FORTH IN SAID MISSOURI SPECIAL WARRANTY DEED, A DISTANCE OF 99.43 FEET; THENCE NORTHEASTERLY, EASTERLY AND SOUTHEASTERLY ALONG A CURVE TO THE RIGHT, TANGENT TO THE LAST DESCRIBED COURSE, HAVING A RADIUS OF 863.00 FEET AND A CENTRAL ANGLE OF 37°12'04", AN ARC LENGTH OF 560.33 FEET; THENCE S 76°47'11" E, TANGENT TO THE LAST DESCRIBED COURSE, A DISTANCE OF 390.18 FEET; THENCE N 13°12'49" E, PERPENDICULAR TO THE LAST DESCRIBED COURSE, A DISTANCE OF 158.84 FEET; THENCE N 39°08'08" E, 285.14 FEET; THENCE N 43°23'13" E, 472.99 FEET; THENCE N 06°45'27" W, 187.37 FEET; THENCE N 83°14'52" E, 285.97 FEET; THENCE N 00°00'00" W, 66.18 FEET; THENCE N 89°57'44" E, 139.18 FEET TO A POINT ON THE WESTERLY RIGHT-OF-WAY LINE OF NORTH PLATTE PURCHASE DRIVE AS NOW ESTABLISHED BY THE FOUNTAIN HILLS - FIRST PLAT, A SUBDIVISION IN SAID CITY, COUNTY AND STATE ACCORDING TO THE RECORDED PLAT THEREOF; THENCE NORTHERLY ALONG THE WESTERLY RIGHT-OF-WAY LINE OF NORTH PLATTE PURCHASE DRIVE ESTABLISHED BY SAID FOUNTAIN HILLS - FIRST PLAT, THE FOLLOWING COURSES AND DISTANCES; THENCE NORTHERLY ALONG A CURVE TO THE RIGHT HAVING AN INITIAL TANGENT BEARING OF N 01°12'55" W, A RADIUS OF 800.00 FEET AND A CENTRAL ANGLE OF 1°45'29", AN ARC LENGTH OF 24.55 FEET TO A POINT 50 FEET WEST OF THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 4 AS MEASURED PERPENDICULAR TO THE EAST LINE THEREOF; THENCE 00°32'34" E (N 00°32'22" E, PLAT), TANGENT TO THE LAST DESCRIBED CURVE AND ALONG A LINE 50 FEET WEST OF AND PARALLEL WITH THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 4, A DISTANCE OF 235.03 FEET (PLAT & MEAS.); TO THE NORTHWEST CORNER OF SAID FOUNTAIN HILLS - FIRST PLAT; THENCE S 89°40'31" E (S 89°40'43" E, PLAT) ALONG THE NORTH LINE OF SAID FOUNTAIN HILLS - FIRST PLAT, A DISTANCE OF 10.50 FEET TO A POINT 39.50 WEST OF THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 4, AS MEASURED PERPENDICULAR TO THE EAST LINE THEREOF; THENCE N 00° 32'34" E, DEPARTING FROM THE WESTERLY RIGHT-OF-WAY LINE OF NORTH PLATTE PURCHASE DRIVE, SAID SECTION 4, AS MEASURED PERPENDICULAR TO THE EAST LINE OF THE NORTHEAST QUARTER OF SAID SECTION 4, A DISTANCE OF 766.02 FEET; THENCE S 90°00'00" W, 521.41 FEET; THENCE WESTERLY AND NORTHWESTERLY ALONG A CURVE TO THE RIGHT, TANGENT TO THE LAST DESCRIBED COURSE, HAVING A RADIUS OF 1,074.00 FEET AND A CENTRAL ANGLE OF 10°29'33", AN ARC LENGTH OF 196.68 FEET; THENCE N 79°50'27" W, TANGENT TO THE LAST DESCRIBED CURVE, A DISTANCE OF 438.44 FEET; THENCE NORTHWESTERLY AND WESTERLY ALONG A CURVE TO THE LEFT, TANGENT TO THE LAST DESCRIBED COURSE, HAVING A RADIUS OF 97.40 FEET AND A CENTRAL ANGLE OF 10°12'45", AN ARC LENGTH OF 173.61 FEET; THENCE N 89°43'12" W, TANGENT TO THE LAST DESCRIBED CURVE, A DISTANCE OF 384.86 FEET; THENCE S 00°00'14" W, 388.62 FEET; THENCE S 49°36'44" W, 1,154.20 FEET; THENCE S 42°05'25" E, 28.96 FEET TO THE POINT OF BEGINNING, CONTAINING 3,746.422 SQUARE FEET OR 86.006 ACRES, MORE OR LESS.
ALSO INCLUDING THE FOLLOWING VARIABLE WIDTH STRIP OF LAND SITUATED IN THE MISSOURI SPECIAL WARRANTY DEED RECORDED IN BOOK 1282 AT PAGE 926, BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
A VARIABLE WIDTH STRIP OF LAND BEING SITUATED IN THE SOUTHEAST QUARTER OF SECTION 4, TOWNSHIP 51 NORTH, RANGE 33 WEST IN THE CITY OF KANSAS CITY, PLATTE COUNTY, MISSOURI, SAID STRIP OF LAND BEING A PORTION OF THAT CERTAIN TRACT OF LAND DESCRIBED AS SET FORTH IN THE MISSOURI SPECIAL WARRANTY DEED RECORDED JULY 31, 2017 IN THE OFFICE OF THE RECORDER OF DEEDS FOR SAID COUNTY AND STATE IN BOOK 926 AT PAGE 926. SAID VARIABLE WIDTH STRIP OF LAND BEING MORE PARTICULARLY DESCRIBED AS FOLLOWS:
COMMENCING AT THE NORTHWEST CORNER OF THE NORTHEAST QUARTER (NORTH QUARTER CORNER) OF AFORESAID SECTION 4; THENCE S 00°29'01" W, DEED) ALONG THE WEST LINE OF THE SOUTHEAST QUARTER OF SAID SECTION 4, A DISTANCE OF 394.51 FEET, DEED AND MEASURED TO THE NORTHWEST CORNER OF THAT CERTAIN TRACT OF LAND DESCRIBED AS SET FORTH IN THE AFORESAID MISSOURI SPECIAL WARRANTY DEED; THENCE N 79°23'32" E (N 79°22'24" E, DEED) ALONG THE NORTHERLY LINE OF THE TRACT OF LAND DESCRIBED IN SAID MISSOURI SPECIAL WARRANTY DEED, A DISTANCE OF 741.92 FEET TO THE POINT OF BEGINNING OF THE VARIABLE WIDTH STRIP OF LAND TO BE HEREIN DESCRIBED; THENCE SOUTH 23°59'14" EAST, DEPARTING FROM THE NORTHERLY LINE OF THAT CERTAIN TRACT OF LAND DESCRIBED AS SET FORTH IN THE SAID MISSOURI SPECIAL WARRANTY DEED, A DISTANCE OF 2.58 FEET; THENCE SOUTHEASTERLY, EASTERLY AND NORTHEASTERLY ALONG A CURVE TO THE LEFT, TANGENT TO THE LAST DESCRIBED COURSE, HAVING A RADIUS OF 50.00 FEET AND A CENTRAL ANGLE OF 90°00'00", AN ARC LENGTH OF 78.54 FEET; THENCE NORTH 66°00'46" EAST, TANGENT TO THE LAST DESCRIBED CURVE, A DISTANCE OF 171.06 FEET TO A POINT ON THE NORTHERLY LINE OF THAT CERTAIN TRACT OF LAND DESCRIBED AS SET FORTH IN THE SAID MISSOURI SPECIAL WARRANTY DEED; THENCE S 79°23'32" W (S 79°22'24" W, DEED) ALONG THE NORTHERLY LINE OF THE TRACT OF LAND DESCRIBED IN THE SAID MISSOURI SPECIAL WARRANTY DEED, A DISTANCE OF 227.23 FEET TO THE POINT OF BEGINNING, CONTAINING 5,275 SQUARE FEET, MORE OR LESS, CONTAINING A TOTAL OF 3,751 SQUARE FEET OR 86.127 ACRES, MORE OR LESS.



THE CONTRACTOR SHALL ADHERE TO THE PROVISIONS OF THE SENATE BILL, NUMBER 583, 78TH GENERAL ASSEMBLY OF THE STATE OF MISSOURI. THE BILL REQUIRES THAT ANY PERSON OR FIRM DOING EXCAVATION ON PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO, & OBTAINING INFORMATION FROM, UTILITY COMPANIES. STATE LAW REQUIRES 48 HOURS ADVANCE NOTICE. CALL 1-800-DIG-RITE.

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MISSOURI STATE CERTIFICATE OF AUTHORITY #001992
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C100

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Missouri State Certificate of Authority
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Structure # 00001331

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SITE DEVELOPMENT PACKAGE

Platte County Middle School
Platte County School District
N Platte Purchase Drive & NW 95th,
Kansas City, MO 64154

REVISIONS:

#	Description	Date

JOB NO: 20021
DRAWN BY: AAGSUN/OSL
CHECKED BY: DE
DATE: 08.16.2021

GENERAL NOTES

- 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE PLANS IN THEIR POSSESSION ARE THE MOST CURRENT VERSION ISSUED...
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEVIATIONS FROM THESE PLANS...
3. ALL WORK AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL...
4. ALL ESTIMATES OF QUANTITIES ARE FOR INFORMATIONAL PURPOSES ONLY...
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL LABOR, MATERIALS, AND EQUIPMENT...
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS...
7. THE CONTRACTOR SHALL NOT ENGAGE IN ACTIVITIES THAT MAY ENDOUR ON WATERS OF THE U.S...
8. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE...
9. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH ALL UTILITY COMPANIES...
10. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL BOUNDARY CORNERS AND SECTION CORNERS...
11. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ADJACENT PROPERTIES...
12. PRIOR TO MOVING OFF THE JOB THE CONTRACTOR SHALL NOTIFY THE OWNER AND ENGINEER TO PERFORM A FINAL WALK-THROUGH OF THE CONSTRUCTION SITE.

REFERENCES

- 1. ARCHITECTURAL AND STRUCTURAL ELEMENTS SHOWN IN THESE PLANS ARE FOR REFERENCE ONLY...
2. THE CONTRACTOR SHALL ADHERE TO THE SITE PREPARATION AND STRUCTURAL FILL RECOMMENDATIONS...
3. UNLESS EXPLICITLY DESCRIBED OTHERWISE WITHIN THESE PLANS THE FOLLOWING SHALL APPLY:
A. ALL CONSTRUCTION, INCLUDING THOSE LISTED BELOW, SHALL CONFORM TO THE LATEST CODES AND ORDINANCES OF KANSAS CITY, MO.
B. ALL CONSTRUCTION IN MODOT RIGHT-OF-WAY SHALL CONFORM TO THE LATEST SPECIFICATIONS ADOPTED BY U.S. DEPARTMENT OF TRANSPORTATION AND MODOT.
C. ALL TRAFFIC CONTROL SIGNAGE SHALL CONFORM WITH THE CURRENT EDITION OF THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
D. ALL UTILITY EXTENSIONS AND CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE UTILITY COMPANIES.
E. ALL EXTERIOR PAVEMENT (PCC, ASPHALT, ETC.) SHALL BE IN CONFORMANCE WITH THE SPECIFICATIONS OF KANSAS CITY, MO AND THE RECOMMENDATIONS OF THE GEOTECHNICAL REPORT.
4. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE DELIVERY MANAGER AND COORDINATING ANY MAILBOXES THAT MAY BE DISTURBED...

EXISTING CONDITIONS

- 1. THE CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH THE EXISTING CONDITIONS OF THE PROJECT AREA.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PERFORMING THEIR OWN INVESTIGATIONS AND MAKING THEIR OWN ASSUMPTIONS REGARDING SITE SURFACE AND SUBSURFACE CONDITIONS...
3. EXISTING CONDITIONS WERE DETERMINED THROUGH A VARIETY OF METHODS THAT MAY INCLUDE SURVEY, AERIAL IMAGERY, AVAILABLE RECORDS, GIS DATA, ETC...

CONSTRUCTION

- 1. THE CONTRACTOR SHALL INSTALL TRAFFIC CONTROL WHILE WORKING IN THE PUBLIC RIGHT-OF-WAY AS SHOWN IN THESE PLANS...
2. THE CONTRACTOR SHALL PROTECT ALL TREES OVER 3" CALIPER FROM DAMAGE...
3. IN ADDITION TO THE CONDITIONS OF THE GEOTECHNICAL REPORT AND AS A MINIMUM THE CONTRACTOR SHALL PERFORM THE GRADING AS FOLLOWS:
A. THE CONSTRUCTION AREA SHALL BE CLEARED, GRUBBED, AND STRIPPED OF TOPSOIL AND ORGANIC MATTER FROM ALL AREAS TO BE OCCUPIED BY BUILDING AND PAVING...
B. AREAS TO RECEIVE FILL AND AREAS CUT TO SUBGRADE LEVEL SHALL BE SCARIFIED AND THE TOP 8-INCH DEPTH COMPACTED TO 95% STANDARD PROCTOR DENSITY...
C. FILL SHALL BE PLACED IN MAXIMUM OF 8 INCH LIFTS...
D. TOPSOIL SHALL BE PLACED TO A MINIMUM DEPTH OF 6 INCHES OVER ALL AREAS DISTURBED BY THE WORK...
4. THE CONTRACTOR SHALL DISPOSE ALL WASTE MATERIAL RESULTING FROM THE PROJECT OFF-SITE AND IN STRICT CONFORMANCE WITH ALL LOCAL CODES AND ORDINANCES...
5. ALL MANHOLES, CATCH BASINS, UTILITY VALVES AND METER PITS ARE TO BE ADJUSTED OR REBUILT TO GRADE AS REQUIRED...
6. THE CONTRACTOR SHALL STREET SWEEP OR OTHERWISE CLEAN ALL ACCESS ROUTES TO THE SITE AT CONCLUSION OF THE PROJECT.

SHOP DRAWINGS

- 1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING A MINIMUM OF 7 DAYS PRIOR TO THE REQUESTED DATE OF APPROVAL...
2. SHOP DRAWINGS AS DESCRIBED ABOVE ARE REQUIRED FOR, BUT NOT LIMITED TO, THE FOLLOWING:
A. ALL STORM SEWER STRUCTURES TO BE INSTALLED WITH THIS PROJECT.
B. ALL SANITARY SEWER STRUCTURES TO BE INSTALLED WITH THIS PROJECT.
C. ALL SITE FENCING AND RAILING INCLUDING ANY GATES.
D. ALL LANDSCAPE AND RETAINING WALLS.
E. ANY ITEMS IN THESE PLANS THAT ALLOW FOR AN APPROVED EQUAL ALTERNATIVE.

DEMOLITION PLAN NOTES

- 1. PRIOR TO ANY DEMOLITION EROSION CONTROL MEASURES AND CONSTRUCTION FENCING SHALL BE INSTALLED PER SITE DISTURBANCE PLANS AND SWPPP.
2. THE CONTRACTOR SHALL COORDINATE ALL ITEMS TO BE SALVAGED AND/OR PROTECTED WITH SITE OWNER AND UTILITY OWNERS.
3. THE CONTRACTOR SHALL NOT INTERRUPT ANY UTILITY SERVICES TO ANY ADJACENT PROPERTIES...
4. SECONDARY WIRING, SERVICES, IRRIGATION AND OTHER MINOR SITE IMPROVEMENTS THAT ARE NOT TO REMAIN IN SERVICE ARE TO BE DEMOLISHED AND REMOVED.
5. ALL PAVEMENT SAWCUTS ARE TO BE MADE IN STRAIGHT, CLEAN LINES LEAVING A CLEAN AND STABLE EDGE AT FULL PAVEMENT DEPTH.
6. ALL PCC PAVEMENT AND ALL CURB SHALL BE REMOVED TO NEAREST JOINT.
7. ALL MATERIALS REMOVED FROM THE SITE SHALL BE DISPOSED OF IN STRICT CONFORMANCE WITH LOCAL CODES AND ORDINANCES.
8. ALL TREE REMOVAL SHALL INCLUDE STUMPS AND ROOTS. DEPRESSIONS CREATED SHALL BE FILLED TO PROVIDE DRAINAGE.

SITE PLAN NOTES

- 1. ALL PAVEMENT DIMENSIONS ARE TO BACK OF CURB, OR EDGE OF PAVEMENT WHERE NO CURB IS PRESENT...
2. INSTALLED PAVEMENT SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT TO PROVIDE SMOOTH SURFACE TRANSITIONS...
3. ALL ASPHALT PAVING SHALL BE IN CONFORMANCE WITH ALL LOCAL CODES AND ORDINANCES...
4. ALL PCC PAVING SHALL BE IN CONFORMANCE WITH LOCAL CODES AND ORDINANCES...
5. CONCRETE PAVEMENT JOINTS SHALL BE CONSTRUCTED AS FOLLOWS (REFER TO HARDSCAPE PLANS FOR SPECIFIC TREATMENT OF THESE AREAS):
A. CONTROL JOINTS SPACED AS SHOWN IN THESE PLANS OR AT INTERVALS NOT GREATER THAN 1.5x PANEL WIDTH OR 12 FEET...
B. CONTROL JOINTS SHALL BE TOOLED OR SAWCUT TO 1/4 THE SLAB THICKNESS...
C. CONSTRUCTION JOINTS PLACED AT THE END OF EACH POUR...
D. ISOLATION JOINTS PLACED WHERE THE PAVEMENT ABUTS THE BUILDING, DRAINAGE STRUCTURES AND OTHER FIXED STRUCTURES...
6. ACCESSIBLE PARKING
A. STALLS SHALL BE SIGNED WITH CITY/ADA APPROVED SIGN AND CONSTRUCTED IN STRICT ACCORDANCE WITH CITY/ADA CODES AND ORDINANCES.
B. ACCESSIBLE PARKING STALLS SHALL NOT EXCEED 2.00 PERCENT IN ANY DIRECTION...
C. STALLS SHALL BE MARKED BY THE INTERNATIONAL HANDICAPPED SYMBOL AT INDICATED PARKING SPACES...
7. PAVEMENT MARKINGS SHALL NOT BE APPLIED UNTIL LAYOUT, COLORS AND PLACEMENT HAVE BEEN VERIFIED...
8. PAVEMENT MARKINGS SHALL INCLUDE TRAFFIC LANES, PARKING BAYS, AREAS RESTRICTED TO HANDICAPPED PERSONS...
9. ALL PARKING LOT STRIPING SHALL BE SINGLE LINE 4" WIDE WHITE STRIPES...
10. CURBS AT FIRE LANES AS DESIGNATIONS BY THE FIRE MARSHAL SHALL BE PAINTED OR OTHERWISE INDICATED PER CITY OF CITY CODES AND ORDINANCES.
11. PAINT FOR MARKING PAVEMENT SHALL CONFORM TO FEDERAL HIGHWAY MARKING STANDARDS (FHMS) AND CITY OF CITY CODES AND ORDINANCES...
12. APPLY ALL MARKINGS USING APPROVED MECHANICAL EQUIPMENT (WITH PROVISIONS FOR CONSTANT AGITATION OF PAINT)...

GRADING PLAN NOTES

- 1. THE CONTOUR LINES, SPOT ELEVATIONS AND BUILDING FLOOR ELEVATIONS SHOWN ARE TO FINISH GRADE...
2. THE CONTRACTOR SHALL FINISH GRADE SLOPES AS SHOWN NO STEEPER THAN 1 FOOT VERTICAL IN 3 FEET HORIZONTAL.
3. THE CONTRACTOR SHALL GRADE LANDSCAPED AREAS TO PROVIDE POSITIVE DRAINAGE AWAY FROM BUILDING AND SIDEWALKS...
4. SPOT ELEVATIONS ARE TO EDGE OF PAVEMENT, LIP OF CURB, OR FINISHED GRADE UNLESS OTHERWISE INDICATED.

EROSION CONTROL PLAN NOTES

- 1. CONTRACTOR SHALL CONSIDER ANY EROSION AND/OR SEDIMENT CONTROL SHOWN IN THIS PLAN SET...
2. CONTRACTOR IS RESPONSIBLE FOR INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES...
3. AT ANY TIME DURING CONSTRUCTION THE CITY MAY REQUIRE ADDITIONAL EROSION/SILTATION CONTROL MEASURES...
4. CONTRACTOR SHALL INSPECT ALL EROSION CONTROL DEVICES...
5. ALL DISTURBED AREAS SHALL BE LANDSCAPED, SEEDED OR SODDED...
6. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES...
7. PRIOR TO LEAVING THE SITE THE CONTRACTOR SHALL ENSURE THAT ALL DRAINAGE STRUCTURES, FLUMES, PIPES, GUTTERS, ETC. ARE CLEANED OUT AND WORKING PROPERLY.

STORM SEWER PLAN NOTES

- 1. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH CITY OF KANSAS CITY, MO.
2. ALL PIPE LENGTHS AND ELEVATIONS ARE CALCULATED LINEARLY FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
3. COORDINATES ARE PROVIDED AT THE CENTER OF STRUCTURE...
4. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT...
5. STORM SEWER TRENCHES SHALL BE CONSTRUCTED SUCH THAT UNDISTURBED EXISTING SOIL OR FILL COMPACTED TO 95% PROCTOR DENSITY IS AT A DEPTH THAT IS 18" ABOVE TOP OF PROPOSED PIPE.
6. STRUCTURE INVERT CHANNELS SHALL BE SMOOTH, CIRCULAR, AND CONFORMING TO 1/2 THE ADJACENT PIPE SECTION...
7. PIPE PENETRATIONS SHALL BE GROUTED TO ENSURE WATERTIGHT SEALS.

SANITARY SEWER PLAN NOTES

- 1. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH CITY OF KANSAS CITY, MO.
2. ALL PIPE LENGTHS ARE CALCULATED LINEARLY FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE.
3. COORDINATES ARE PROVIDED AT THE CENTER OF STRUCTURE...
4. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT...
5. SANITARY SEWER TRENCHES SHALL BE CONSTRUCTED SUCH THAT UNDISTURBED EXISTING SOIL OR FILL COMPACTED TO 95% PROCTOR DENSITY IS AT A DEPTH THAT IS 18" ABOVE TOP OF PROPOSED PIPE.
6. MANHOLE INVERT CHANNELS SHALL BE SMOOTH, CIRCULAR, AND CONFORMING TO 1/2 THE ADJACENT PIPE SECTION...
7. PIPE PENETRATIONS SHALL BE USE GASKETS TO ENSURE WATERTIGHT SEALS.
8. TRACING TAPE SHALL BE INSTALLED ALONG ALL NON-METALLIC SURFACES...
9. SEWER LINE INSPECTIONS AND TESTING MUST BE SCHEDULED A MINIMUM OF TWO FULL BUSINESS DAYS IN ADVANCE...
10. GRAVITY SANITARY SEWER AND WATER LINES SHALL BE SEPARATED BY A MINIMUM OF 10" HORIZONTALLY...
11. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH KC WATER SERVICES.
12. ALL PIPE LENGTHS ARE CALCULATED LINEARLY FROM CENTER OF FITTING OR WALL OF VAULT.
13. COORDINATES ARE PROVIDED ALONG PIPE CENTERLINE...
14. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT...
15. WATER PIPE TRENCHES SHALL BE CONSTRUCTED SUCH THAT UNDISTURBED EXISTING SOIL OR FILL COMPACTED TO 95% PROCTOR DENSITY IS AT A DEPTH THAT IS 18" ABOVE TOP OF PROPOSED PIPE.
16. ALL PRIVATE WATER LINES SHALL BE A MINIMUM OF 48 INCHES AND MAXIMUM OF 60 INCHES BELOW THE FINISHED GRADE...
17. IF AN AS-BUILT OF A WATER LINE IS REQUIRED OR EXPECTED...
18. DISINFECTION AND PRESSURE TESTING OF WATER LINES SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR...
19. ALL EXISTING FIRE HYDRANTS ON SITE OR IN THE RIGHT-OF-WAY BETWEEN PROPERTY AND ROADWAY SHALL BE REPAINTED PER LOCAL CODES AND ORDINANCES.
20. TRACING TAPE SHALL BE INSTALLED ALONG ALL NON-METALLIC SURFACES...
21. DRY UTILITY PLAN NOTES
22. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH UTILITY OWNER.
23. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND...
24. TELEPHONE AND COMMUNICATION SERVICE ROUTING AND CONDUITS, IF SHOWN AT ALL, ARE SUGGESTED ALIGNMENTS ONLY...

WATER PLAN NOTES

- 1. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH KC WATER SERVICES.
2. ALL PIPE LENGTHS ARE CALCULATED LINEARLY FROM CENTER OF FITTING OR WALL OF VAULT.
3. COORDINATES ARE PROVIDED ALONG PIPE CENTERLINE...
4. THE CONTRACTOR SHALL EXPOSE EXISTING UTILITIES AT LOCATIONS OF POSSIBLE CONFLICT...
5. WATER PIPE TRENCHES SHALL BE CONSTRUCTED SUCH THAT UNDISTURBED EXISTING SOIL OR FILL COMPACTED TO 95% PROCTOR DENSITY IS AT A DEPTH THAT IS 18" ABOVE TOP OF PROPOSED PIPE.
6. ALL PRIVATE WATER LINES SHALL BE A MINIMUM OF 48 INCHES AND MAXIMUM OF 60 INCHES BELOW THE FINISHED GRADE...
7. IF AN AS-BUILT OF A WATER LINE IS REQUIRED OR EXPECTED...
8. DISINFECTION AND PRESSURE TESTING OF WATER LINES SHALL BE PERFORMED AND PAID FOR BY THE CONTRACTOR...
9. ALL EXISTING FIRE HYDRANTS ON SITE OR IN THE RIGHT-OF-WAY BETWEEN PROPERTY AND ROADWAY SHALL BE REPAINTED PER LOCAL CODES AND ORDINANCES.
10. TRACING TAPE SHALL BE INSTALLED ALONG ALL NON-METALLIC SURFACES...
11. DRY UTILITY PLAN NOTES
12. PRIOR TO COMMENCEMENT OF WORK THE CONTRACTOR SHALL NOTIFY AND COORDINATE CONSTRUCTION WITH UTILITY OWNER.
13. ALL ON-SITE WIRING AND CABLES SHALL BE PLACED UNDERGROUND...
14. TELEPHONE AND COMMUNICATION SERVICE ROUTING AND CONDUITS, IF SHOWN AT ALL, ARE SUGGESTED ALIGNMENTS ONLY...

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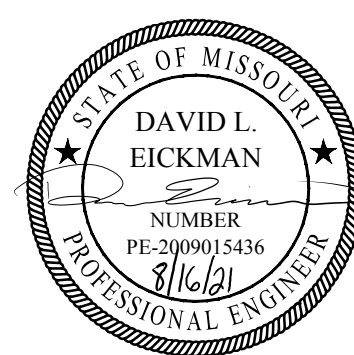
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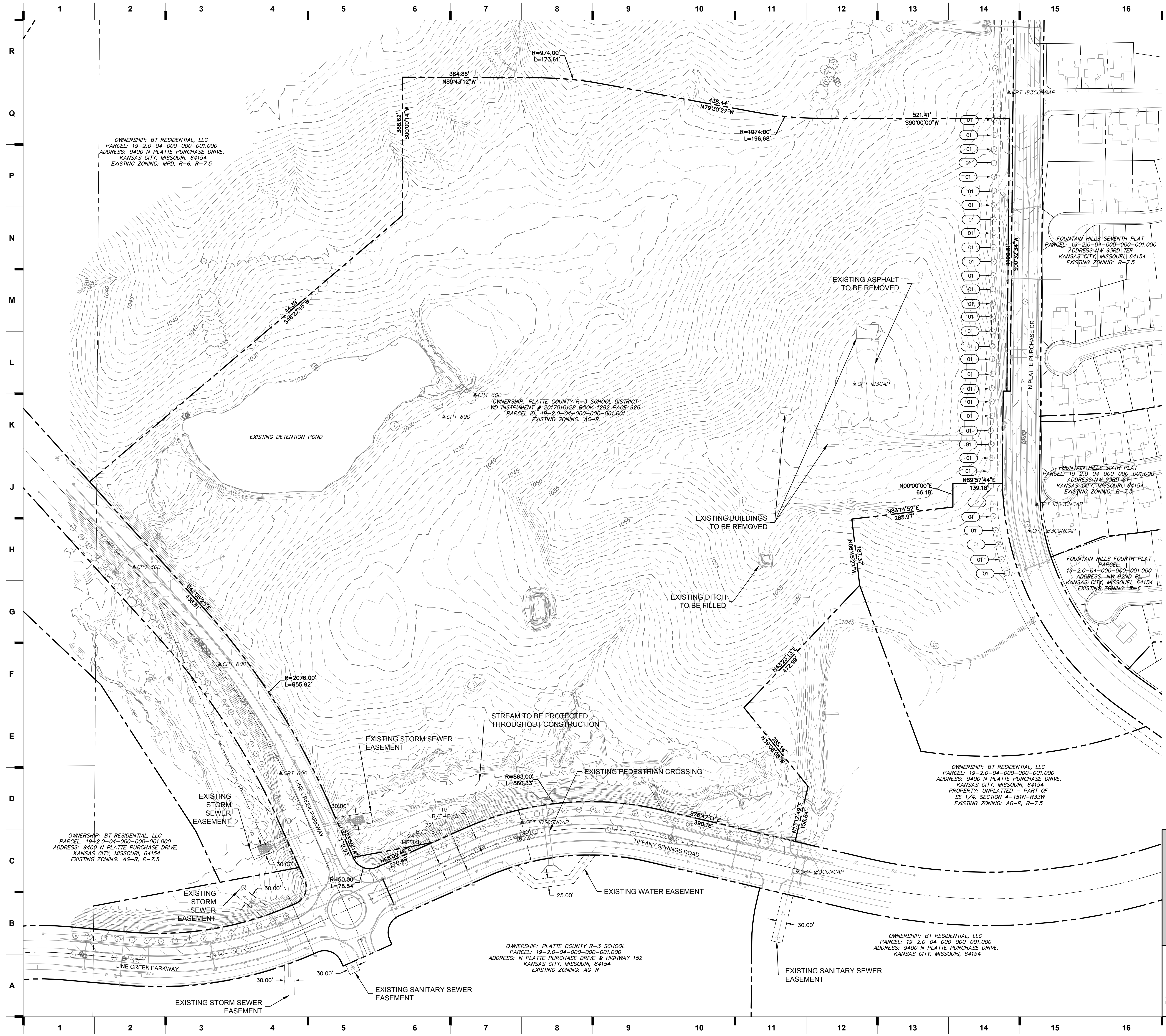
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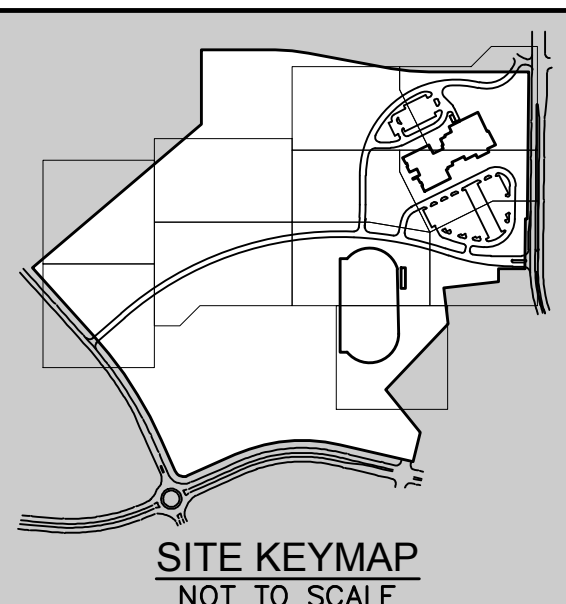
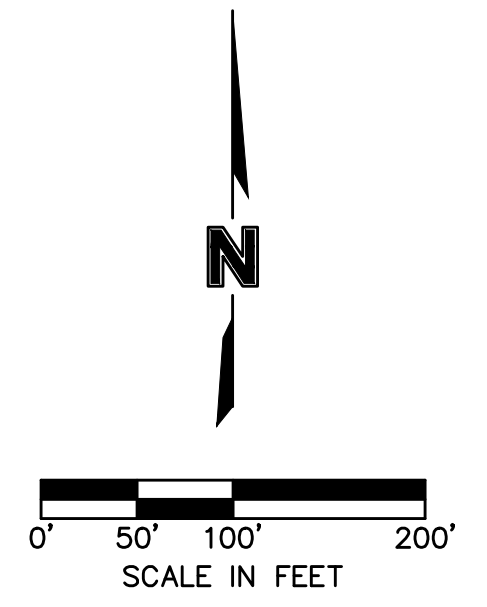
C101

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- EXISTING CONDITIONS LEGEND**
 APPLIES TO ALL SHEETS
- 999 --- EXISTING CONTOUR
 - - - - - PROPERTY BOUNDARY
 - SS --- SS EXISTING STORM SEWER
 - W --- W EXISTING WATER
 - G --- G EXISTING NATURAL GAS
 - P-OH --- P-OH EXISTING OVERHEAD POWER
 - E --- E EXISTING UNDERGROUND POWER

- KEYNOTES**
- 01 EXISTING TREE TO REMAIN, CONTRACTOR SHALL PROTECT AND AVOID DISTURBING ROOT SYSTEM IF POSSIBLE



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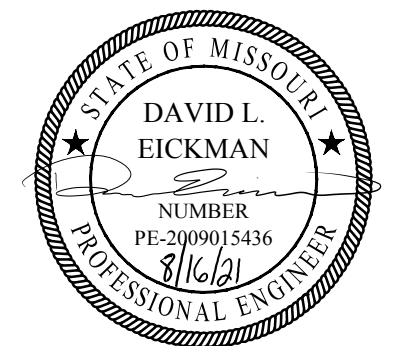
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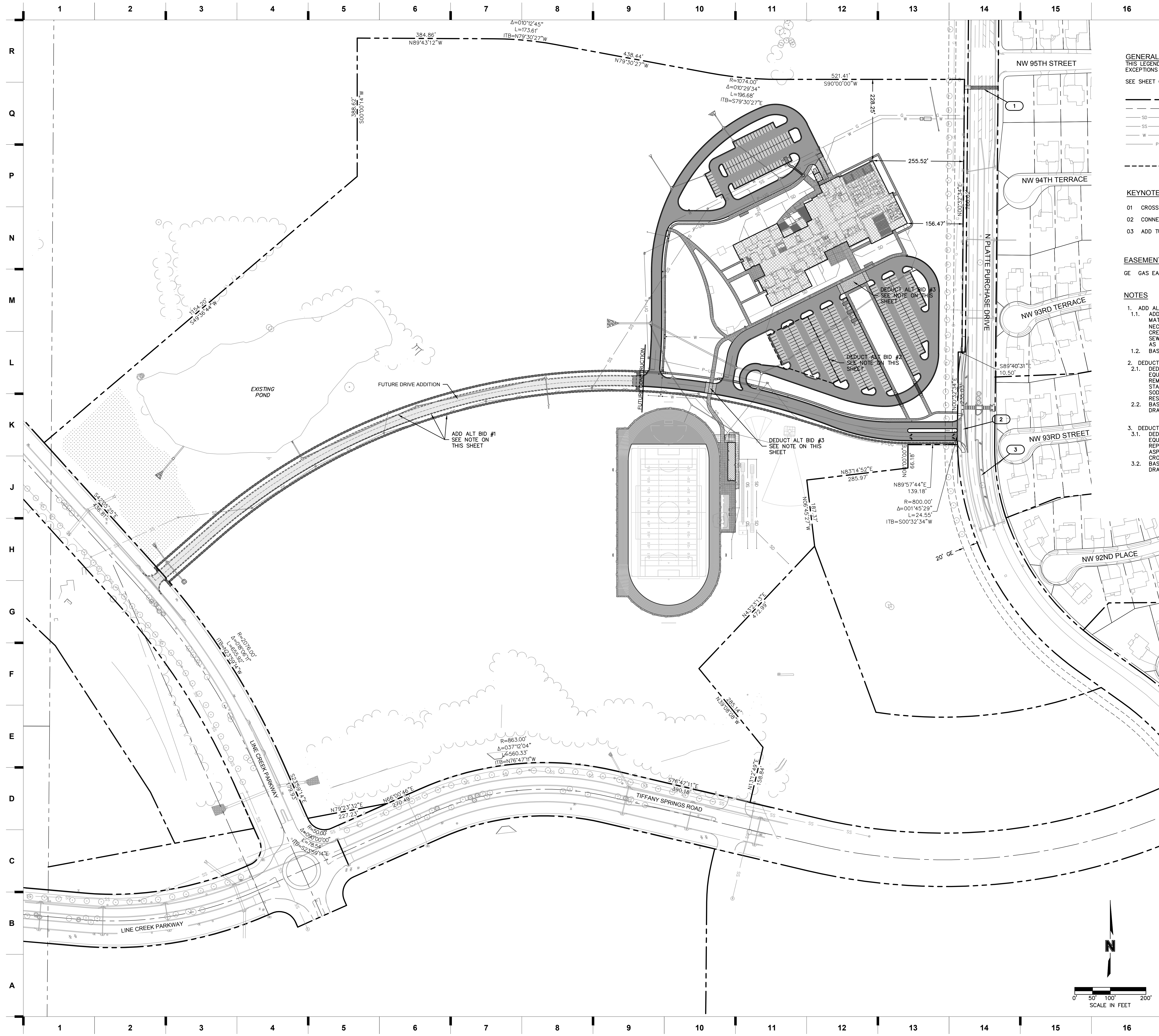
C102

EXISTING CONDITIONS

SITE DEVELOPMENT PACKAGE

hollis architects miller

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GENERAL LEGEND
 THIS LEGEND APPLIES TO ALL SHEETS WITH PLAN VIEWS.
 EXCEPTIONS ARE NOTED ON EACH SHEET WHERE APPLICABLE.
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND

———— PROPERTY BOUNDARIES
 - - - - EASEMENT & SETBACK LINES
 -SD-SD- PROPOSED STORM SEWER
 -SS-SS- PROPOSED SAN, SEWER MAIN
 -W-W- PROPOSED WATER SERVICE
 -P--P- PROPOSED UNDERGROUND POWER
 - - - - BID ALTERNATE DEDUCT LIMITS

KEYNOTES

01 CROSSWALK PER PUBLIC IMPROVEMENT PLANS
 02 CONNECTION PER PUBLIC IMPROVEMENT PLANS
 03 ADD TURN LANE PER PUBLIC IMPROVEMENT PLANS

EASEMENT LEGEND

GE GAS EASEMENT

NOTES

1. ADD ALTERNATE BID #1:
 1.1. ADD ALT. ALTERNATE INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND APPURTENANCES NECESSARY TO INCLUDE EAST/WEST ROAD TO LINE CREEK PARKWAY INCLUDING CURB, PAVEMENT, STORM SEWER, SIDEWALK AND LIGHTING FOR THE DRIVEWAY AS SHOWN ON DRAWINGS.
 1.2. BASE BID: NO EAST/WEST ROAD WORK.

2. DEDUCT ALTERNATE BID #2:
 2.1. DEDUCT: ALTERNATE INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND APPURTENANCES NECESSARY TO REMOVE PARKING CURBS AND PAVEMENT FOR 64 STALLS SHOWN ON PLAN IN THE SOUTH PARKING LOT SOD ALONG THE CURB AS SHOWN AND SEED THE REST OF AREA IN LIEU OF PAVEMENT.
 2.2. BASE BID: ALL PARKING INCLUDED AS INDICATED ON DRAWINGS.

3. DEDUCT ALTERNATE BID #3:
 3.1. DEDUCT: ALTERNATE INCLUDES ALL LABOR, MATERIALS, EQUIPMENT AND APPURTENANCES NECESSARY TO REPLACE TWO CONCRETE SPEED TABLES WITH ASPHALT DRIVEWAY AND PAVEMENT MARKINGS FOR CROSSINGS AT DEPRESSED RAMPS.
 3.2. BASE BID: SPEED TABLES INCLUDED AS INDICATED ON DRAWINGS.

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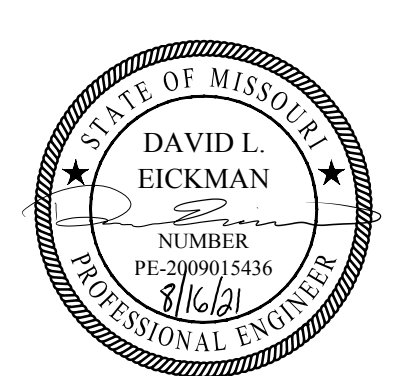
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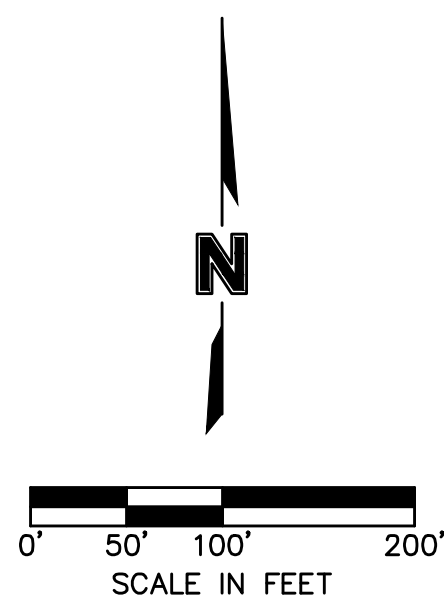
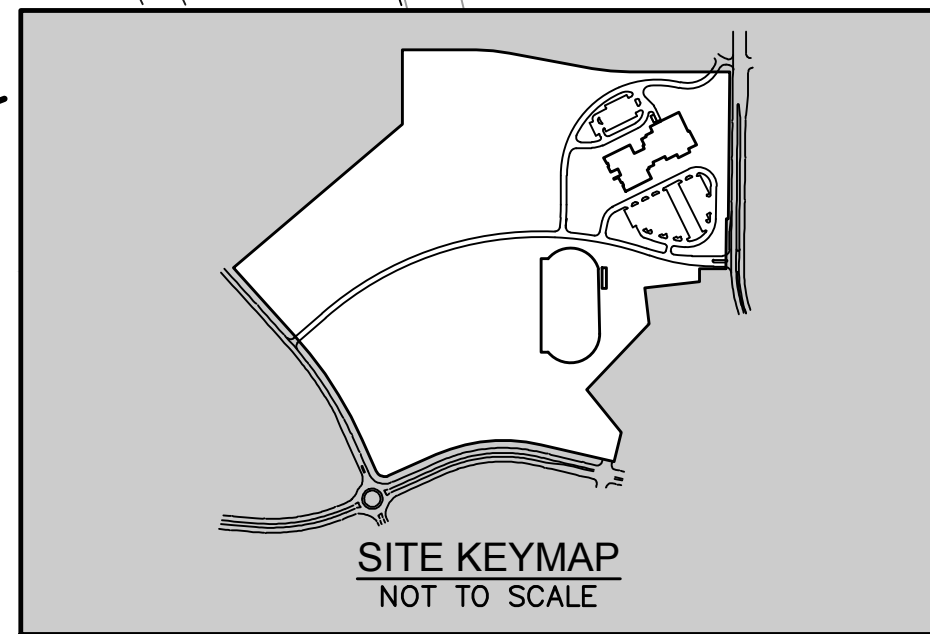
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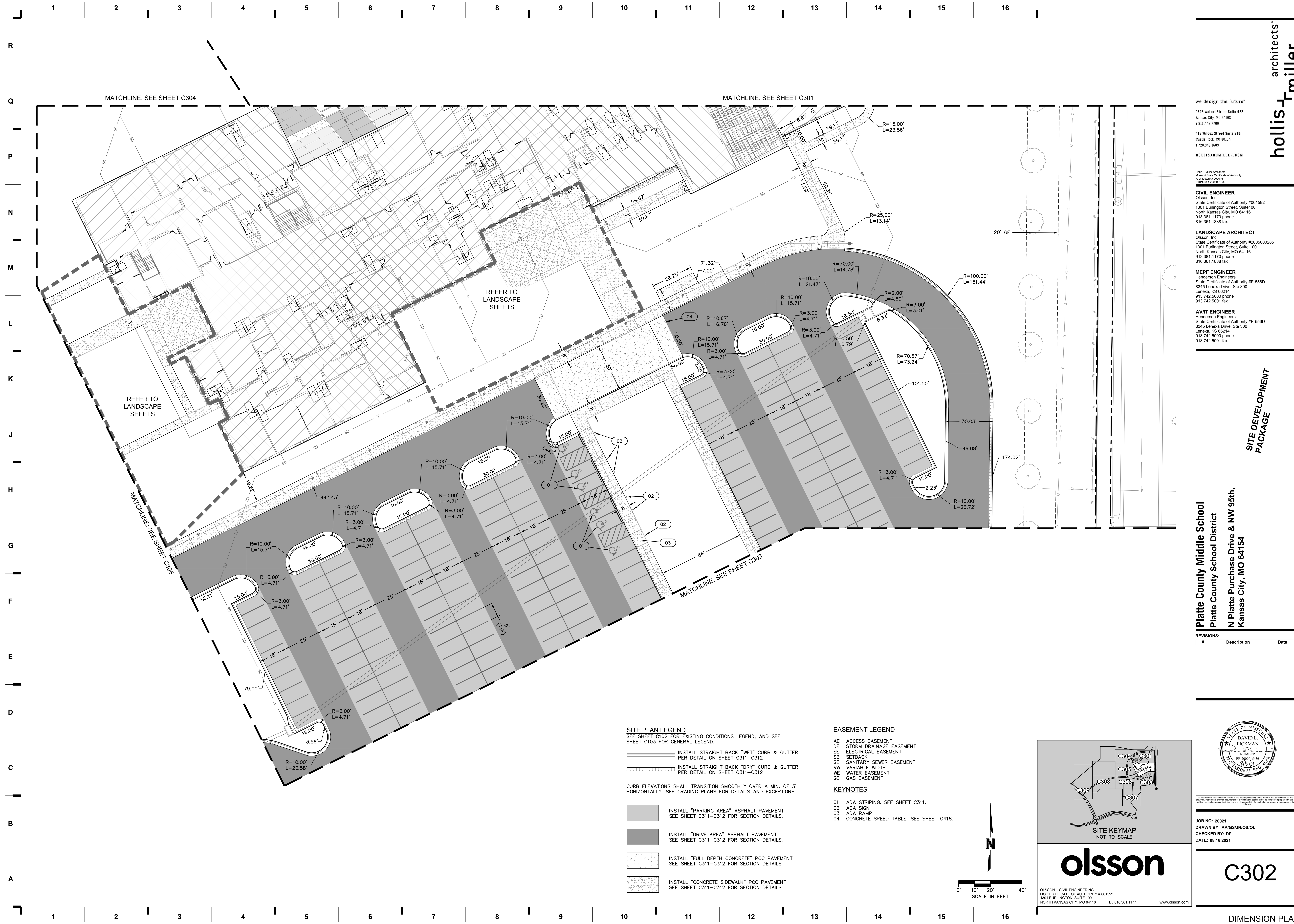
C103

GENERAL LAYOUT

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SITE DEVELOPMENT
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MATCHLINE: SEE SHEET C304

MATCHLINE: SEE SHEET C301

REFER TO LANDSCAPE SHEETS

REFER TO LANDSCAPE SHEETS

MATCHLINE: SEE SHEET C305

MATCHLINE: SEE SHEET C303

SITE PLAN LEGEND

SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND, AND SEE SHEET C103 FOR GENERAL LEGEND.

- INSTALL STRAIGHT BACK "WET" CURB & GUTTER PER DETAIL ON SHEET C311-C312
- INSTALL STRAIGHT BACK "DRY" CURB & GUTTER PER DETAIL ON SHEET C311-C312

CURB ELEVATIONS SHALL TRANSITION SMOOTHLY OVER A MIN. OF 3' HORIZONTALLY. SEE GRADING PLANS FOR DETAILS AND EXCEPTIONS

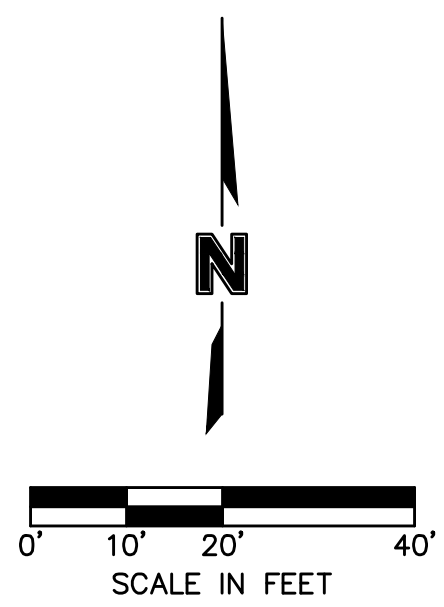
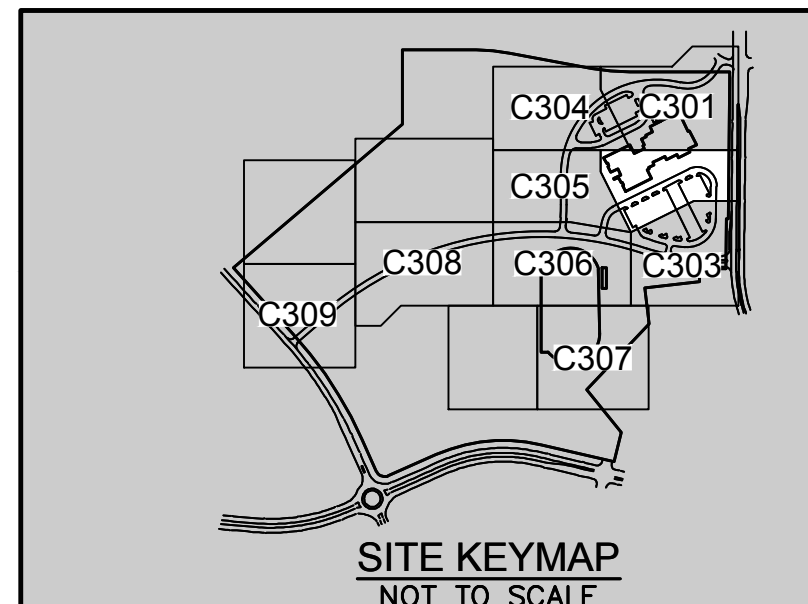
- INSTALL "PARKING AREA" ASPHALT PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.
- INSTALL "DRIVE AREA" ASPHALT PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.
- INSTALL "FULL DEPTH CONCRETE" PCC PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.
- INSTALL "CONCRETE SIDEWALK" PCC PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.

EASEMENT LEGEND

- AE ACCESS EASEMENT
- DE STORM DRAINAGE EASEMENT
- EE ELECTRICAL EASEMENT
- SB SETBACK
- SE SANITARY SEWER EASEMENT
- VW VARIABLE WIDTH
- WE WATER EASEMENT
- GE GAS EASEMENT

KEYNOTES

- 01 ADA STRIPING. SEE SHEET C311.
- 02 ADA SIGN
- 03 ADA RAMP
- 04 CONCRETE SPEED TABLE. SEE SHEET C418.



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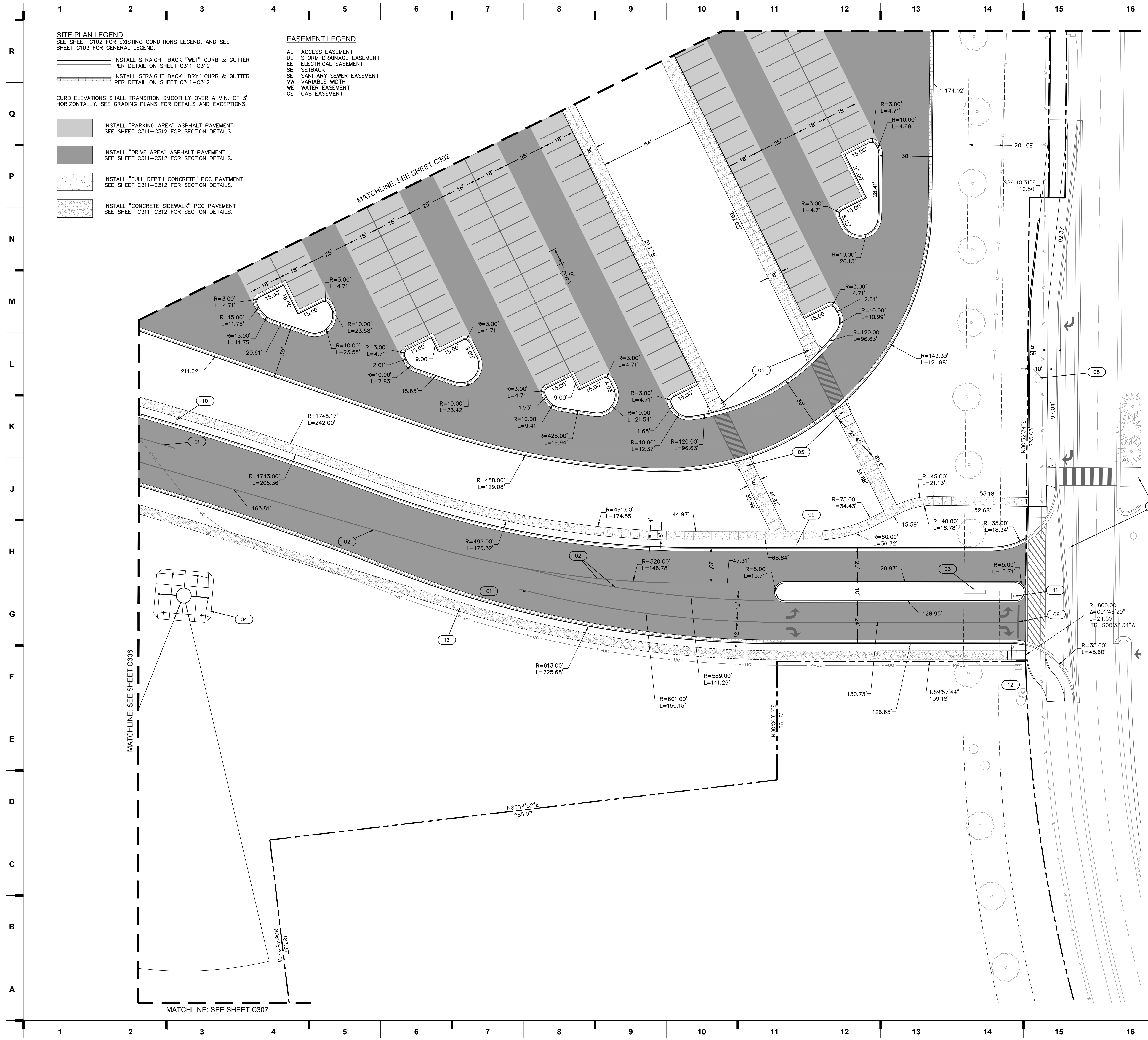


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C302



SITE PLAN LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND, AND SEE SHEET C103 FOR GENERAL LEGEND.

- INSTALL STRAIGHT BACK "WET" CURB & GUTTER PER DETAIL ON SHEET C311-C312
- INSTALL STRAIGHT BACK "DRY" CURB & GUTTER PER DETAIL ON SHEET C311-C312

CURB ELEVATIONS SHALL TRANSITION SMOOTHLY OVER A MIN. OF 3' HORIZONTALLY. SEE GRADING PLANS FOR DETAILS AND EXCEPTIONS

- INSTALL "PARKING AREA" ASPHALT PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.
- INSTALL "DRIVE AREA" ASPHALT PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.
- INSTALL "FULL DEPTH CONCRETE" PCC PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.
- INSTALL "CONCRETE SIDEWALK" PCC PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.

EASEMENT LEGEND

- AE ACCESS EASEMENT
- DE STORM DRAINAGE EASEMENT
- EE ELECTRICAL EASEMENT
- SB SETBACK
- SE SANITARY SEWER EASEMENT
- VW VARIABLE WIDTH
- WE WATER EASEMENT
- GE GAS EASEMENT

KEYNOTES

- 01 4" SOLID WHITE STRIPE.
- 02 4" SOLID YELLOW STRIPE.
- 03 MONUMENT SIGN (PER ARCH PLANS).
- 04 SPORTS FIELDS (PER LANDSCAPE PLANS).
- 05 ADA RAMP
- 06 STOP BAR
- 07 PER PUBLIC IMPROVEMENT PLANS
- 08 TO BE RELOCATED (PER PUBLIC IMPROVEMENT PLANS).
- 09 "SPEED LIMIT 15" SIGN
- 10 "PARENT DROP-OFF LANE" SIGN
- 11 "LEFT ONLY" SIGN
- 12 "STOP SIGN & RIGHT ONLY" SIGN
- 13 BID ALTERNATE SIDEWALK

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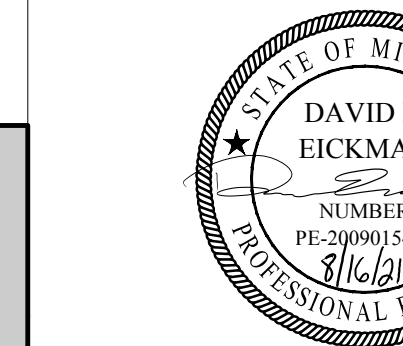
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The Professional Architects and Engineers are offered to the client and hereby shown to this sheet. All drawings, specifications and other documents are intended to be read and used in accordance with the contract and the attached reference documents are all of a part of the contract for each plan, drawing, or document and shall be read in conjunction with the contract.

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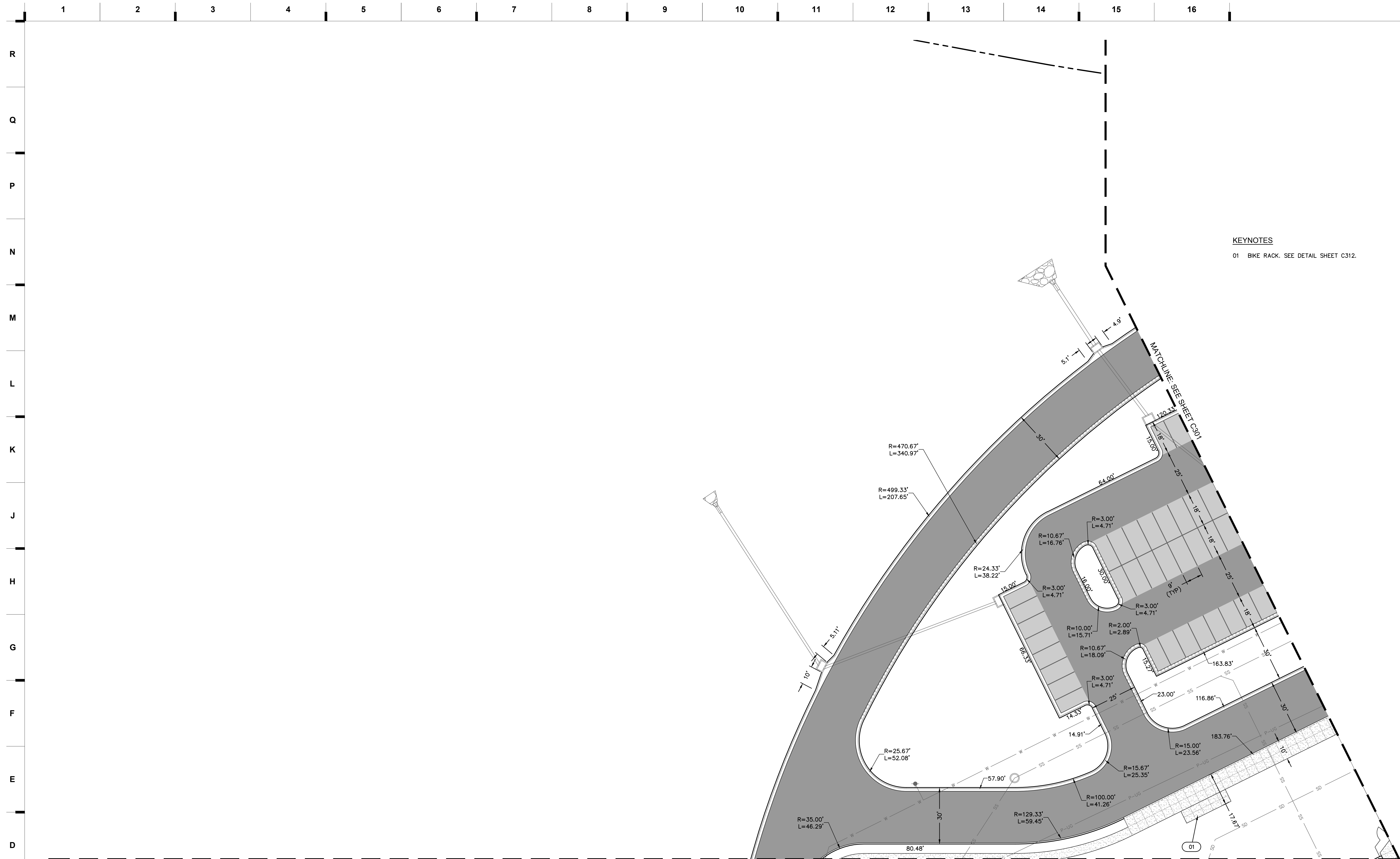
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C303

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SITE DEVELOPMENT PACKAGE

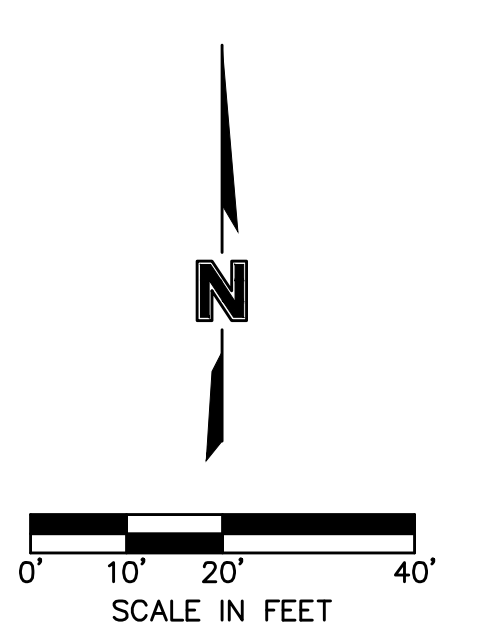
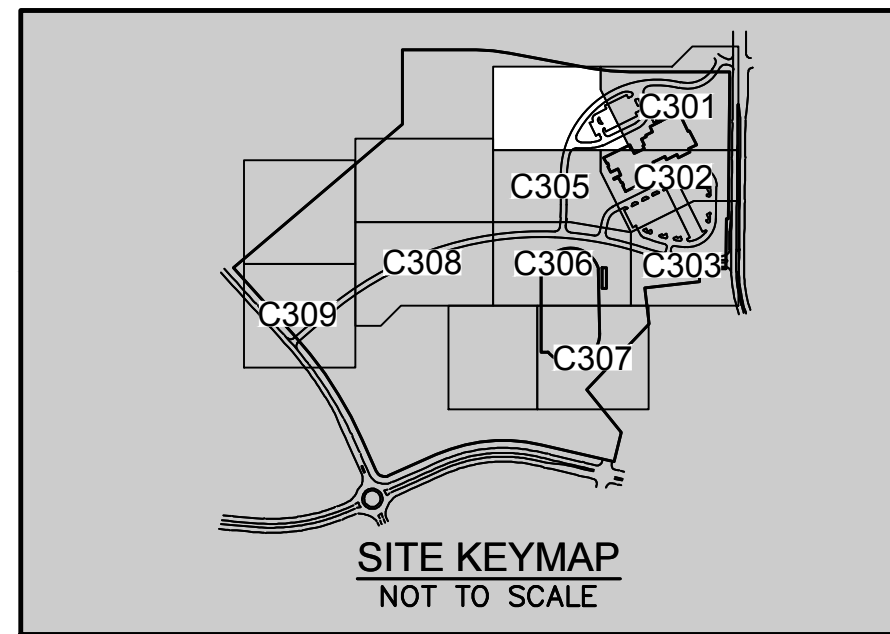


KEYNOTES
 01 BIKE RACK. SEE DETAIL SHEET C312.

- SITE PLAN LEGEND**
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND, AND SEE SHEET C103 FOR GENERAL LEGEND.
- INSTALL STRAIGHT BACK "WET" CURB & GUTTER PER DETAIL ON SHEET C311-C312
 - INSTALL STRAIGHT BACK "DRY" CURB & GUTTER PER DETAIL ON SHEET C311-C312
- CURB ELEVATIONS SHALL TRANSITION SMOOTHLY OVER A MIN. OF 3' HORIZONTALLY. SEE GRADING PLANS FOR DETAILS AND EXCEPTIONS.
- INSTALL "PARKING AREA" ASPHALT PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.
 - INSTALL "DRIVE AREA" ASPHALT PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.
 - INSTALL "FULL DEPTH CONCRETE" PCC PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.
 - INSTALL "CONCRETE SIDEWALK" PCC PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.
- EASEMENT LEGEND**
- AE ACCESS EASEMENT
 - DE STORM DRAINAGE EASEMENT
 - EE ELECTRICAL EASEMENT
 - SB SETBACK
 - SE SANITARY SEWER EASEMENT
 - VW VARIABLE WIDTH
 - WE WATER EASEMENT
 - GE GAS EASEMENT

MATCHLINE: SEE SHEET C305

MATCHLINE: SEE SHEET C302



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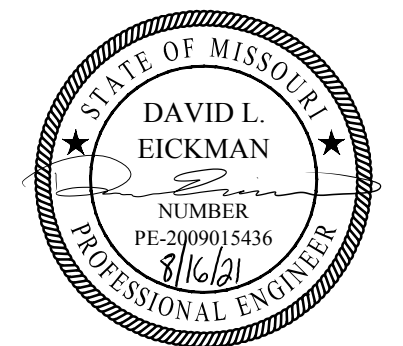
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SITE DEVELOPMENT PACKAGE

Platte County Middle School
 Platte County School District
 N Platte Purchase Drive & NW 95th,
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REVISIONS:

#	Description	Date



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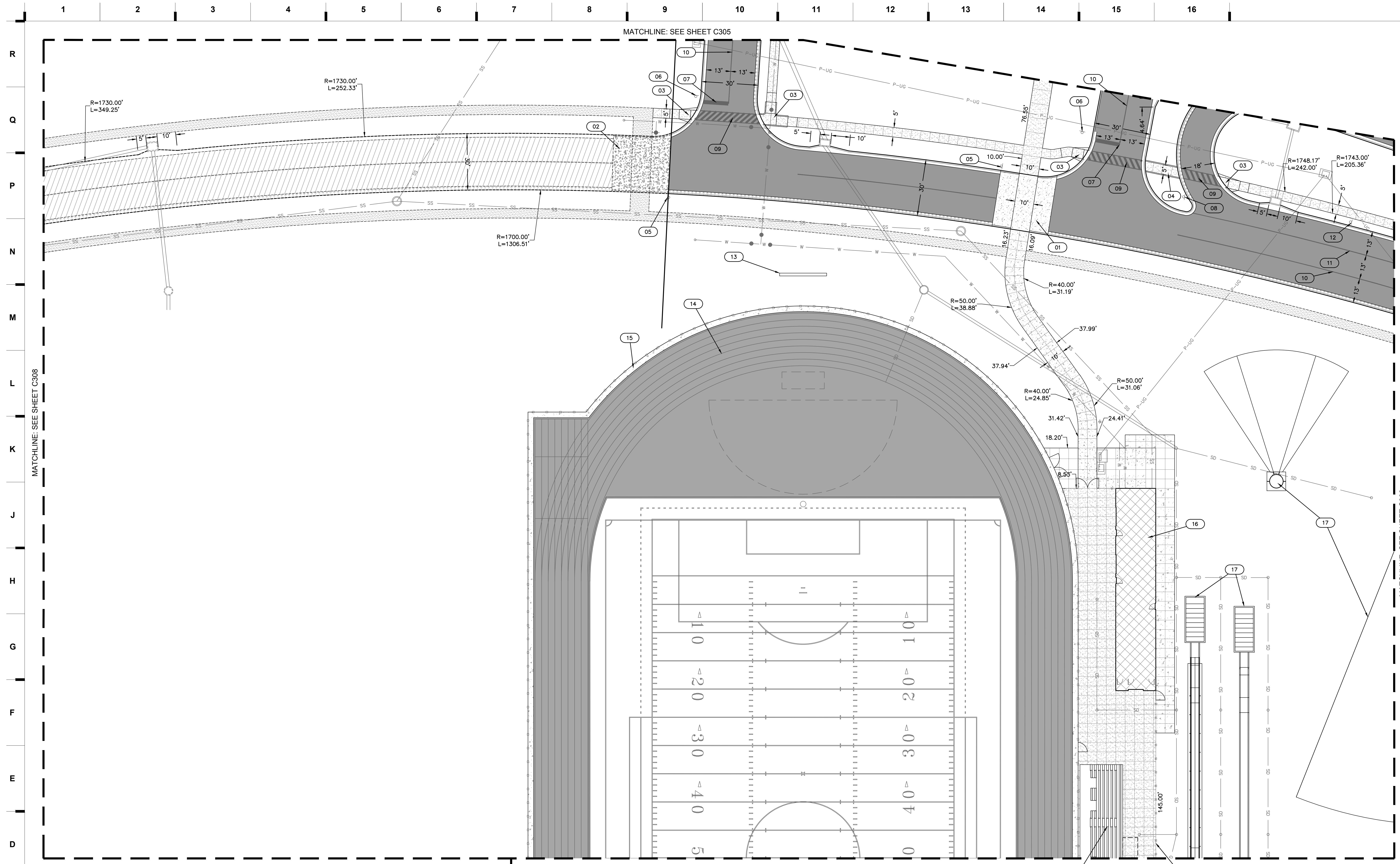
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C304

DIMENSION PLAN

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SITE PLAN LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND, AND SEE SHEET C103 FOR GENERAL LEGEND.

INSTALL STRAIGHT BACK "WET" CURB & GUTTER PER DETAIL ON SHEET C311-C312
 INSTALL STRAIGHT BACK "DRY" CURB & GUTTER PER DETAIL ON SHEET C311-C312

CURB ELEVATIONS SHALL TRANSITION SMOOTHLY OVER A MIN. OF 3' HORIZONTALLY. SEE GRADING PLANS FOR DETAILS AND EXCEPTIONS

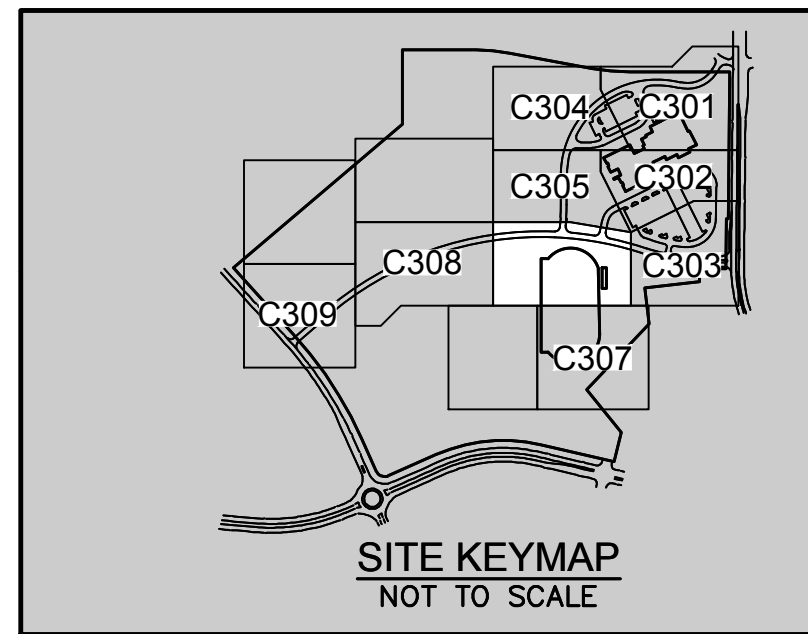
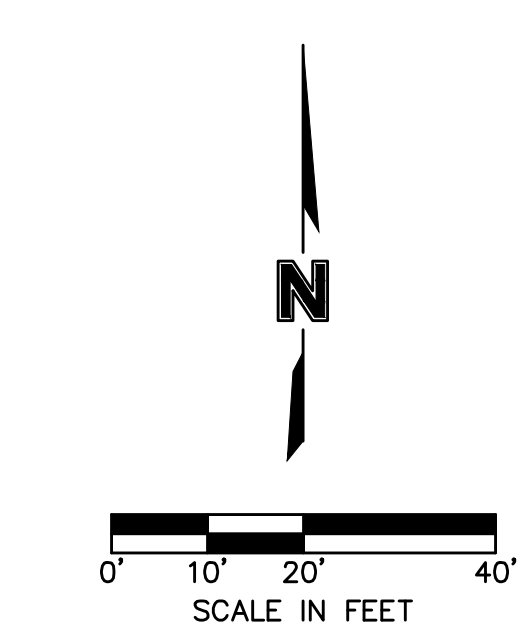
- INSTALL "PARKING AREA" ASPHALT PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.
- INSTALL "DRIVE AREA" ASPHALT PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.
- INSTALL "FULL DEPTH CONCRETE" PCC PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.
- INSTALL "SIDEWALK CONCRETE" PCC PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.

EASEMENT LEGEND

- AE ACCESS EASEMENT
- DE STORM DRAINAGE EASEMENT
- EE ELECTRICAL EASEMENT
- SB SETBACK
- SE SANITARY SEWER EASEMENT
- VW VARIABLE WIDTH
- WE WATER EASEMENT

KEYNOTES

- 01 SPEED TABLE (SEE SHEET C422)
- 02 SPEED TABLE (AS PART OF BID ALT)
- 03 ADA RAMP
- 04 PASS THROUGH WITH SIDEWALK CURB
- 05 SPEED LIMIT SIGN
- 06 STOP SIGN R1-1
- 07 STOP BAR
- 08 REDUCED SPEED & RIGHT TURN ONLY LANE SIGN
- 09 CROSSWALK
- 10 4" SOLID YELLOW LINE
- 11 4" SOLID WHITE LINE
- 12 PARENT DROP-OFF SIGN
- 13 SCOREBOARD PER LANDSCAPE PLANS
- 14 TRACK AND FIELD PER LANDSCAPE PLANS
- 15 5' MIN. WALK OUTSIDE TRACK
- 16 PROPOSED BUILDING PER ARCH. PLANS
- 17 SPORTS FACILITIES PER LANDSCAPE PLANS
- 18 SPORTS BLEACHERS PER LANDSCAPE PLANS
- 19 FENCING AROUND BLEACHERS AND CONCESSION AREAS PER LANDSCAPE PLANS



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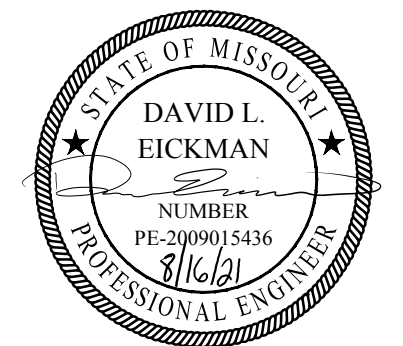
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Platte County Middle School
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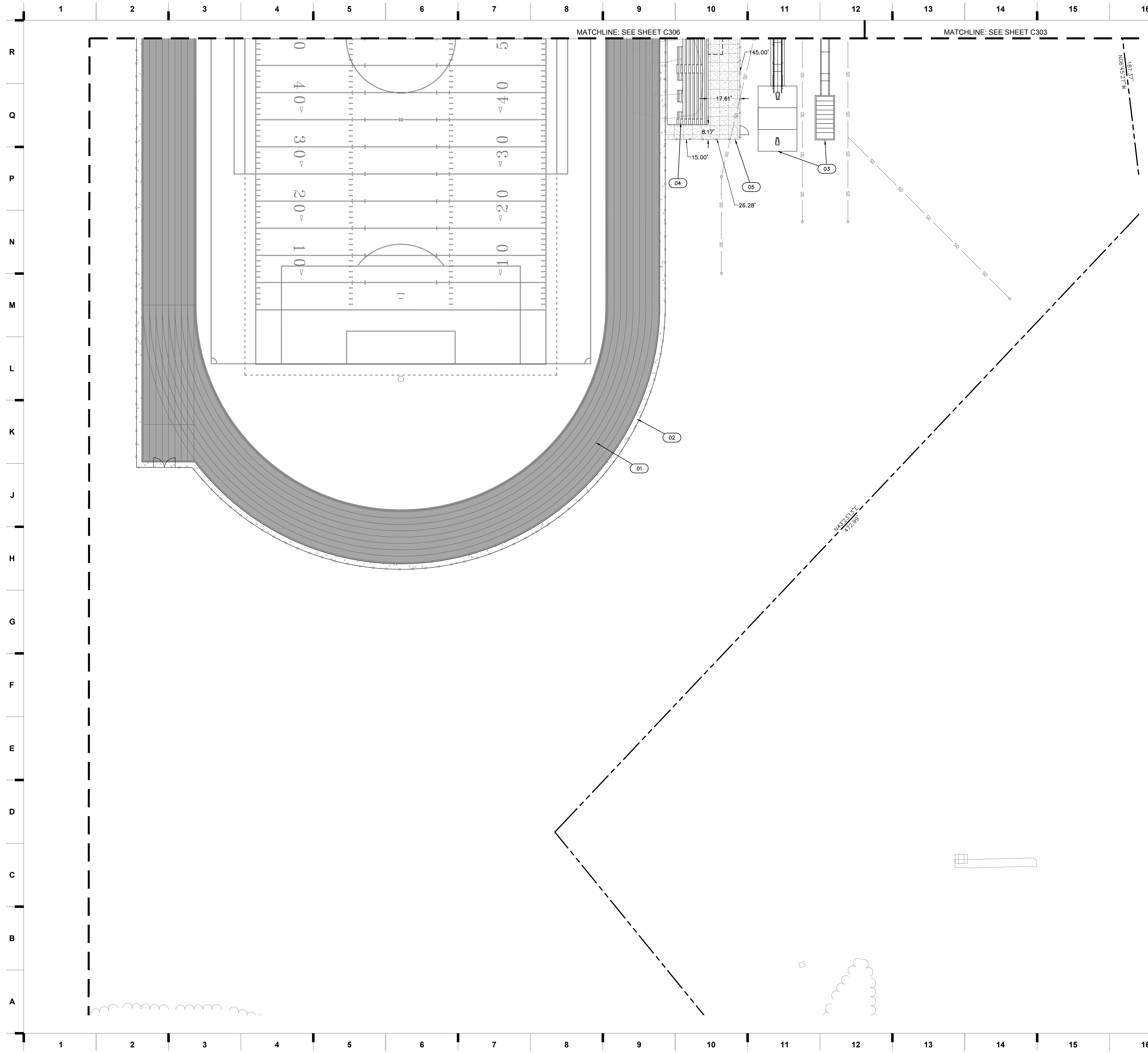
C306

DIMENSION PLAN

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SITE DEVELOPMENT PACKAGE

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- SITE PLAN LEGEND**
SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND, AND SEE SHEET C103 FOR GENERAL LEGEND.
- INSTALL STRAIGHT BACK "WET" CURB & GUTTER PER DETAIL ON SHEET C311-C312
 - INSTALL STRAIGHT BACK "DRY" CURB & GUTTER PER DETAIL ON SHEET C311-C312
- CURB ELEVATIONS SHALL TRANSITION SMOOTHLY OVER A MIN. OF 3' HORIZONTALLY. SEE GRADING PLANS FOR DETAILS AND EXCEPTIONS
- INSTALL "PARKING AREA" ASPHALT PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.
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 - INSTALL "CONCRETE SIDEWALK" PCC PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.

- EASEMENT LEGEND**
- AE ACCESS EASEMENT
 - DE STORM DRAINAGE EASEMENT
 - EE ELECTRICAL EASEMENT
 - SB SETBACK
 - SE SANITARY SEWER EASEMENT
 - VW VARIABLE WIDTH
 - WE WATER EASEMENT
 - GE GAS EASEMENT

- KEYNOTES**
- 01 TRACK AND FIELD PER LANDSCAPE PLANS
 - 02 5' MIN. WALK OUTSIDE TRACK
 - 03 SPORTS FACILITIES PER LANDSCAPE PLANS
 - 04 SPORTS BLEACHERS PER LANDSCAPE PLANS
 - 05 FENCING AROUND BLEACHERS AND CONCESSION AREAS PER LANDSCAPE PLANS

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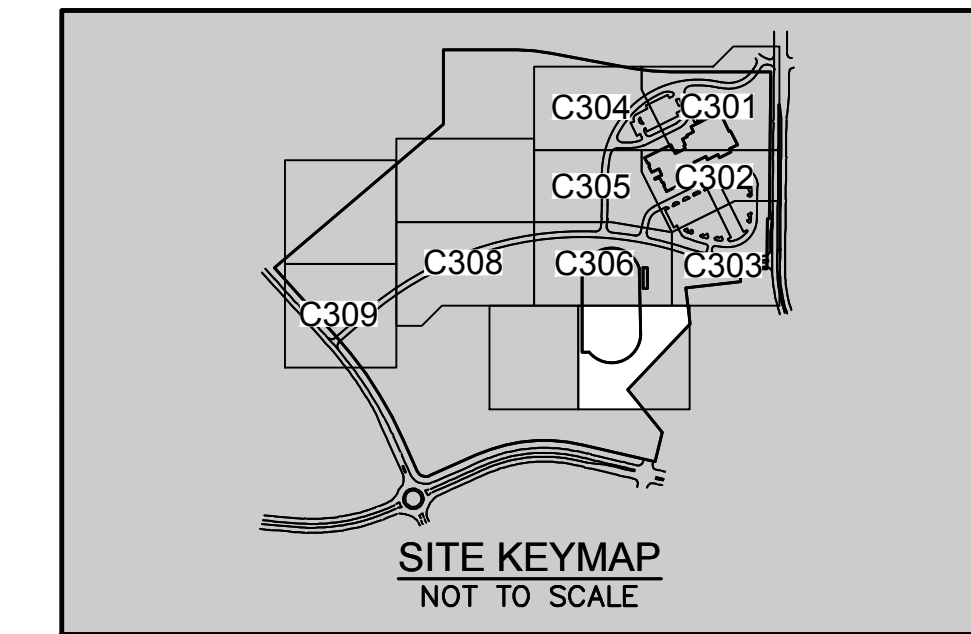
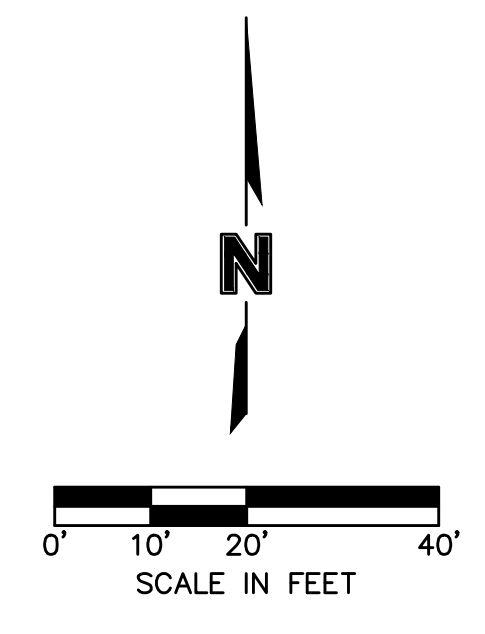
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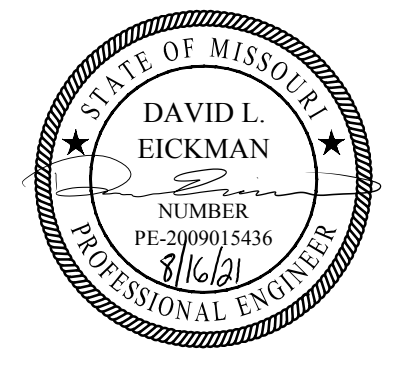
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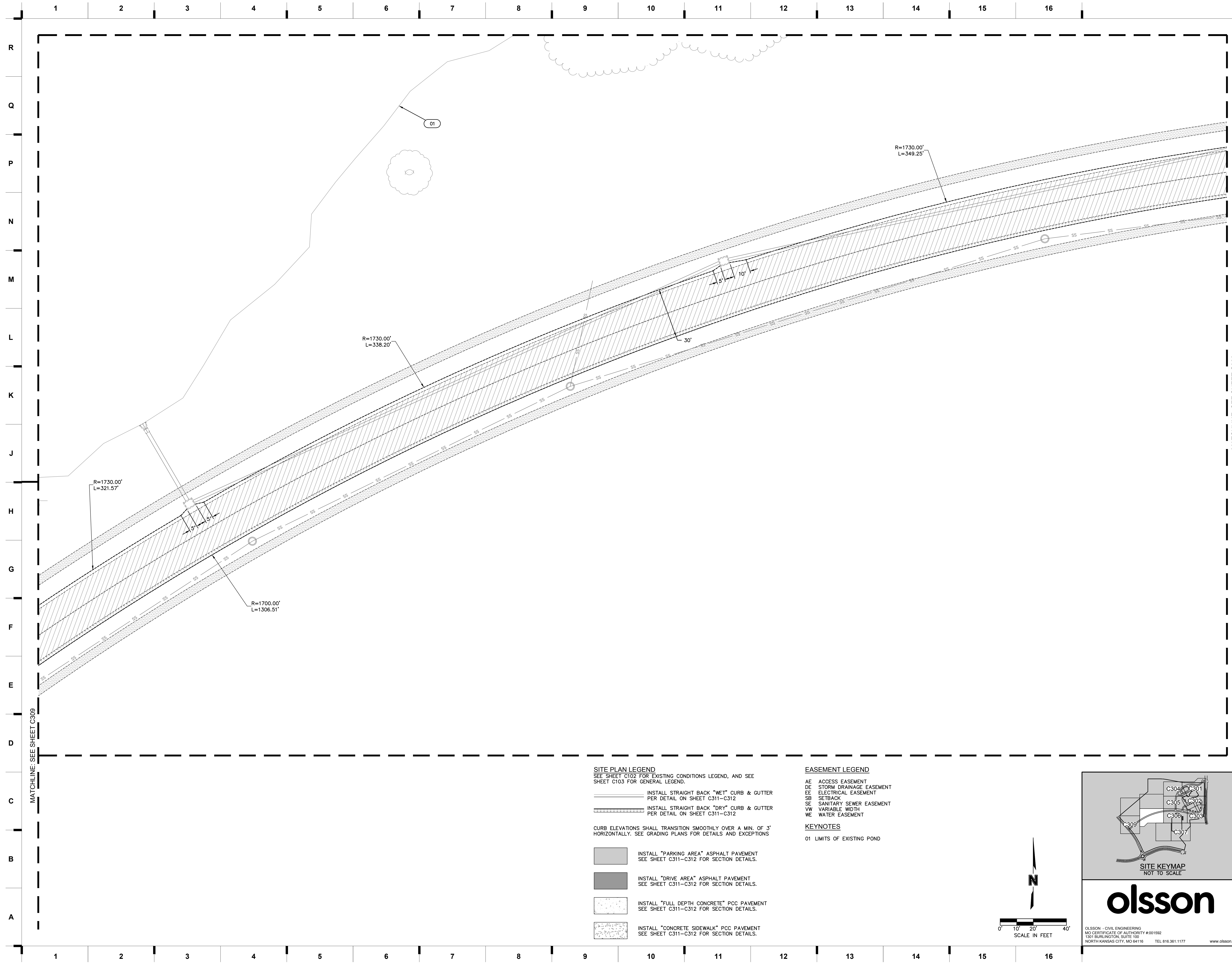
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STATE OF MISSOURI
DAVID L. EICKMAN
 NUMBER
 PE-200001449
 PROFESSIONAL ENGINEER

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C308

DIMENSION PLAN

hollis + miller architects

SITE DEVELOPMENT PACKAGE

SITE PLAN LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND, AND SEE SHEET C103 FOR GENERAL LEGEND.

- INSTALL STRAIGHT BACK "WET" CURB & GUTTER PER DETAIL ON SHEET C311-C312
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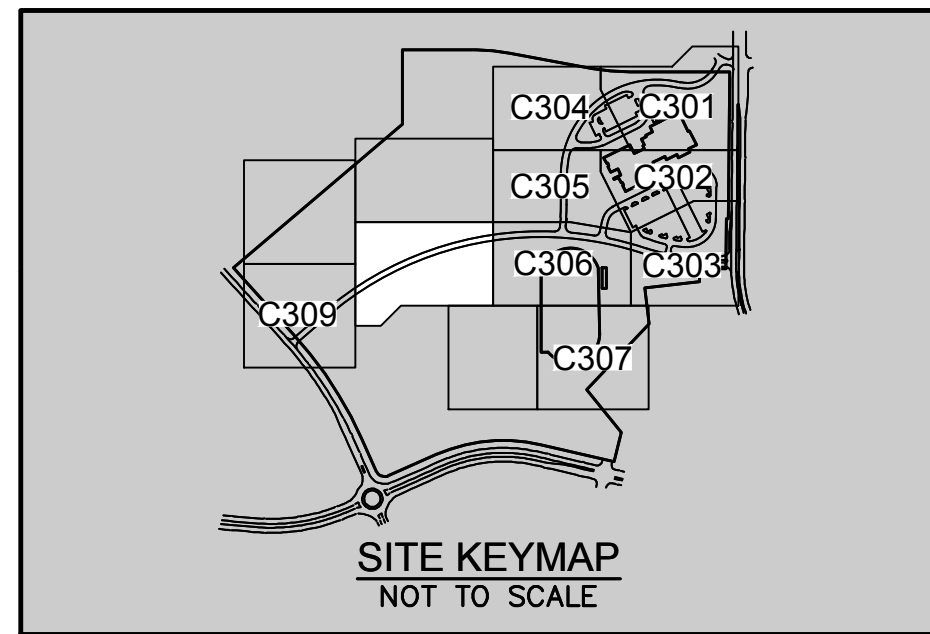
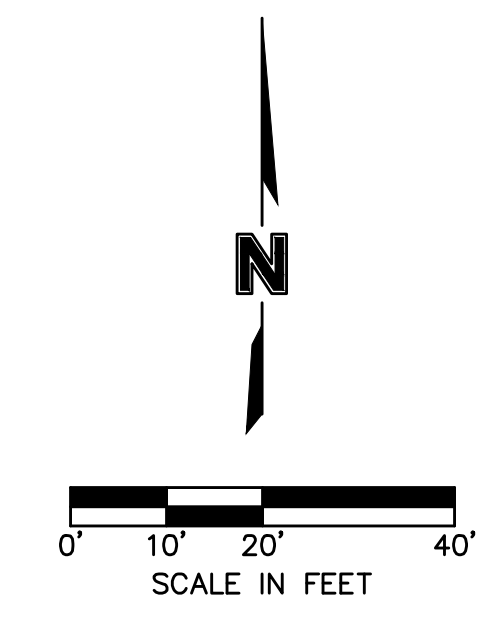
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- INSTALL "CONCRETE SIDEWALK" PCC PAVEMENT SEE SHEET C311-C312 FOR SECTION DETAILS.

EASEMENT LEGEND

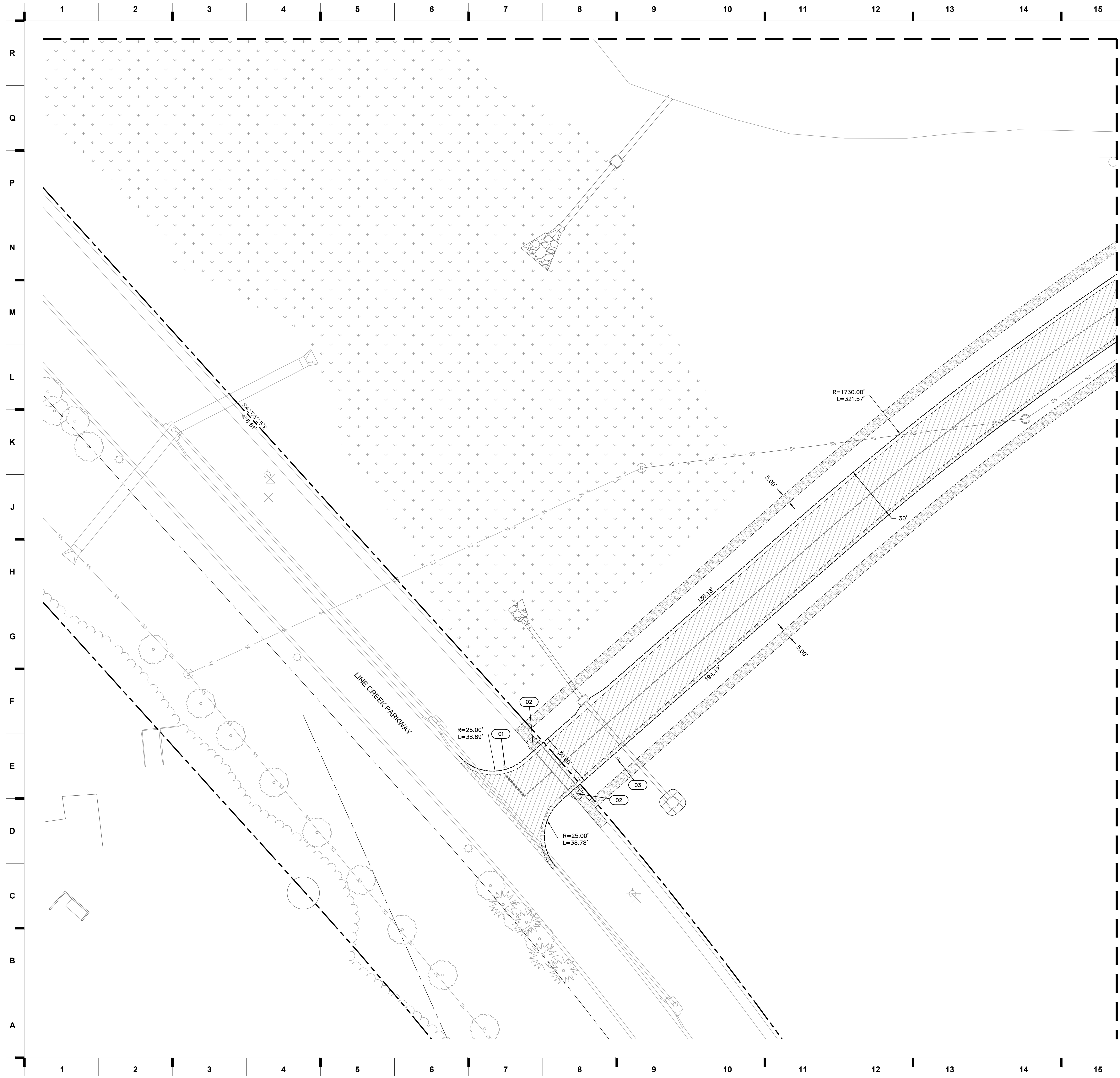
- AE ACCESS EASEMENT
- DE STORM DRAINAGE EASEMENT
- EE ELECTRICAL EASEMENT
- SB SETBACK
- SE SANITARY SEWER EASEMENT
- VW VARIABLE WIDTH
- WE WATER EASEMENT

KEYNOTES

- 01 LIMITS OF EXISTING POND



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- SITE PLAN LEGEND**
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- INSTALL STRAIGHT BACK "WET" CURB & GUTTER PER DETAIL ON SHEET C311-C312
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 - SB SETBACK
 - SE SANITARY SEWER EASEMENT
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- KEYNOTES**
- 01 STOP SIGN
 - 02 ADA RAMP
 - 03 SPEED LIMIT 15 MPH SIGN

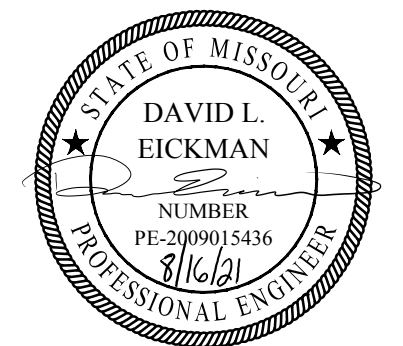
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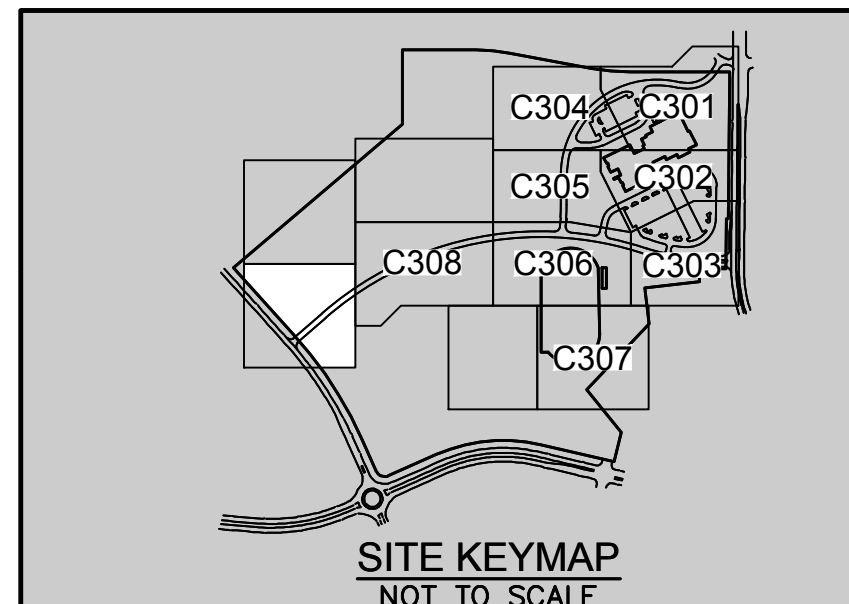
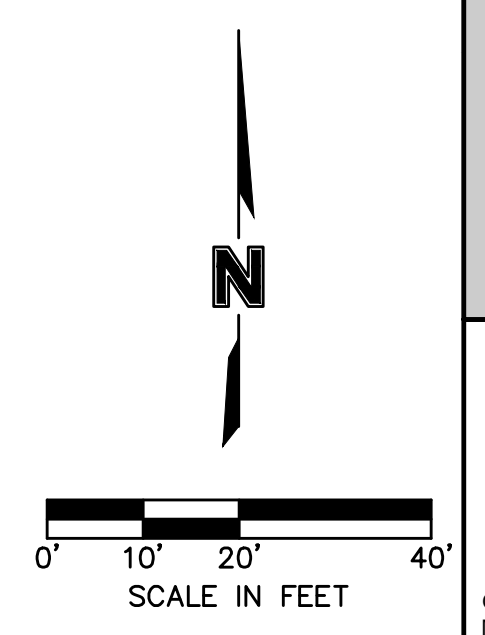
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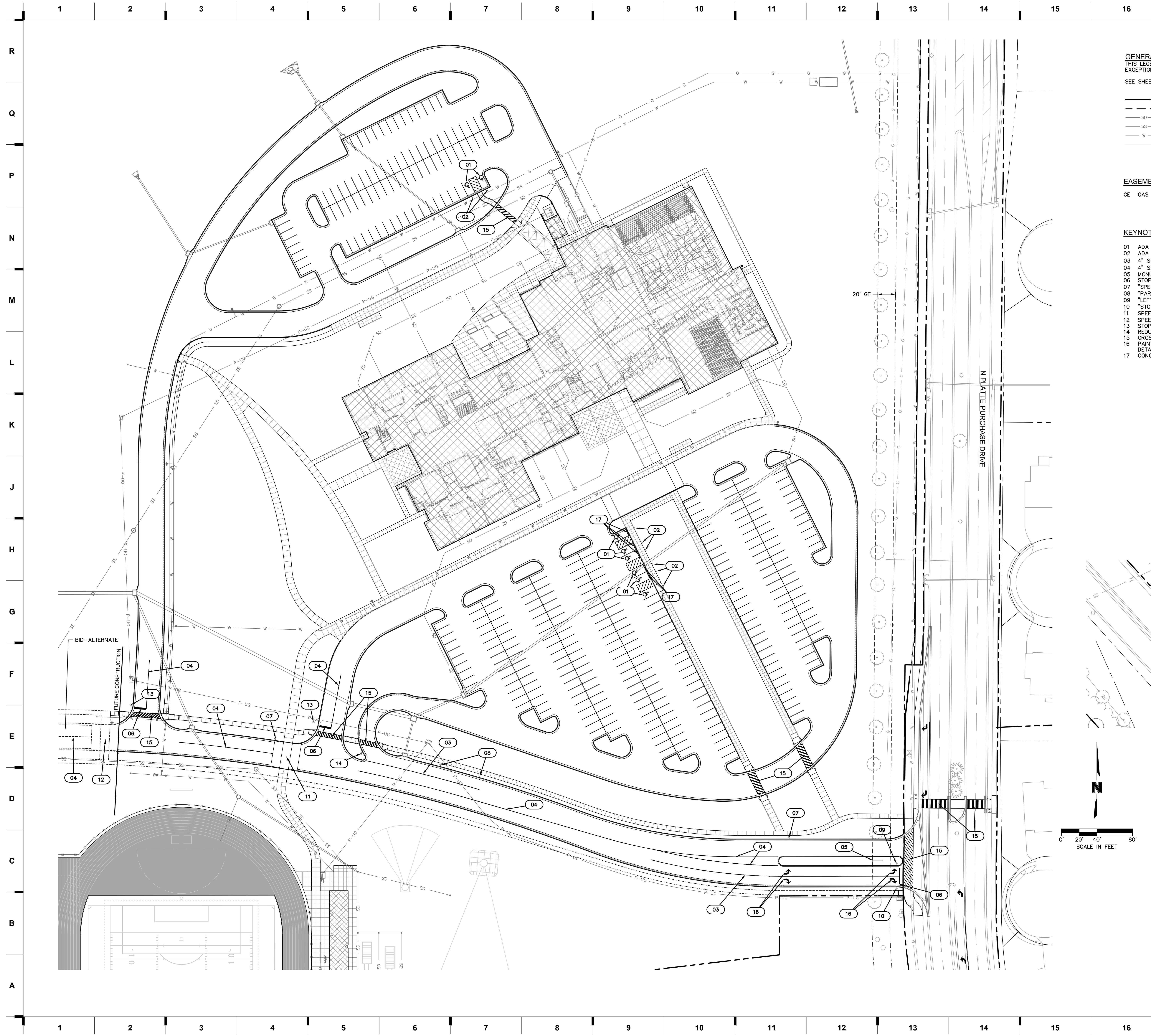
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DIMENSION PLAN

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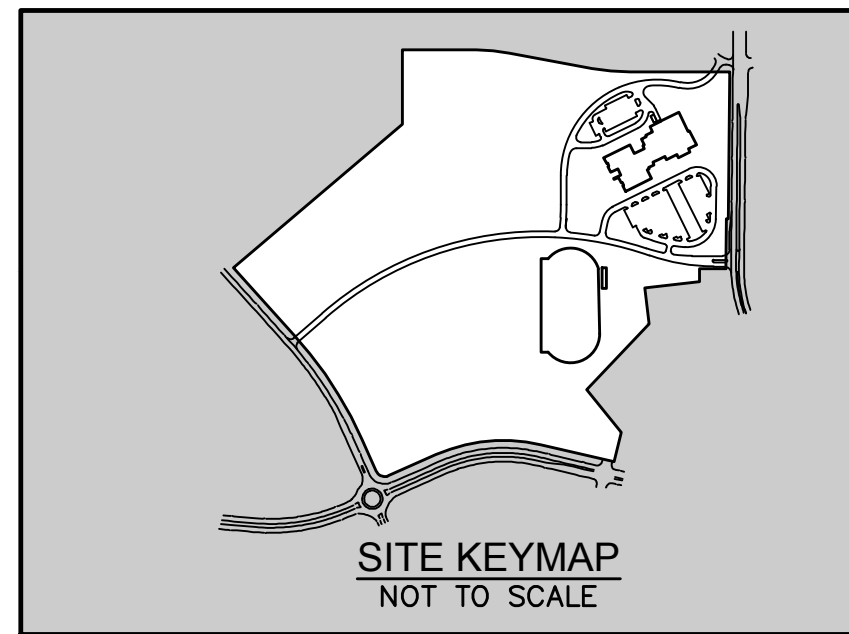
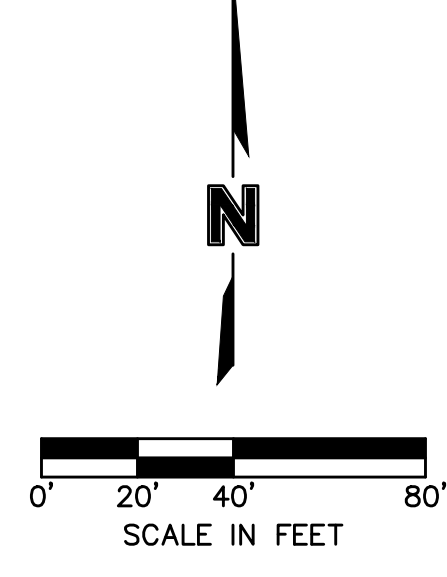
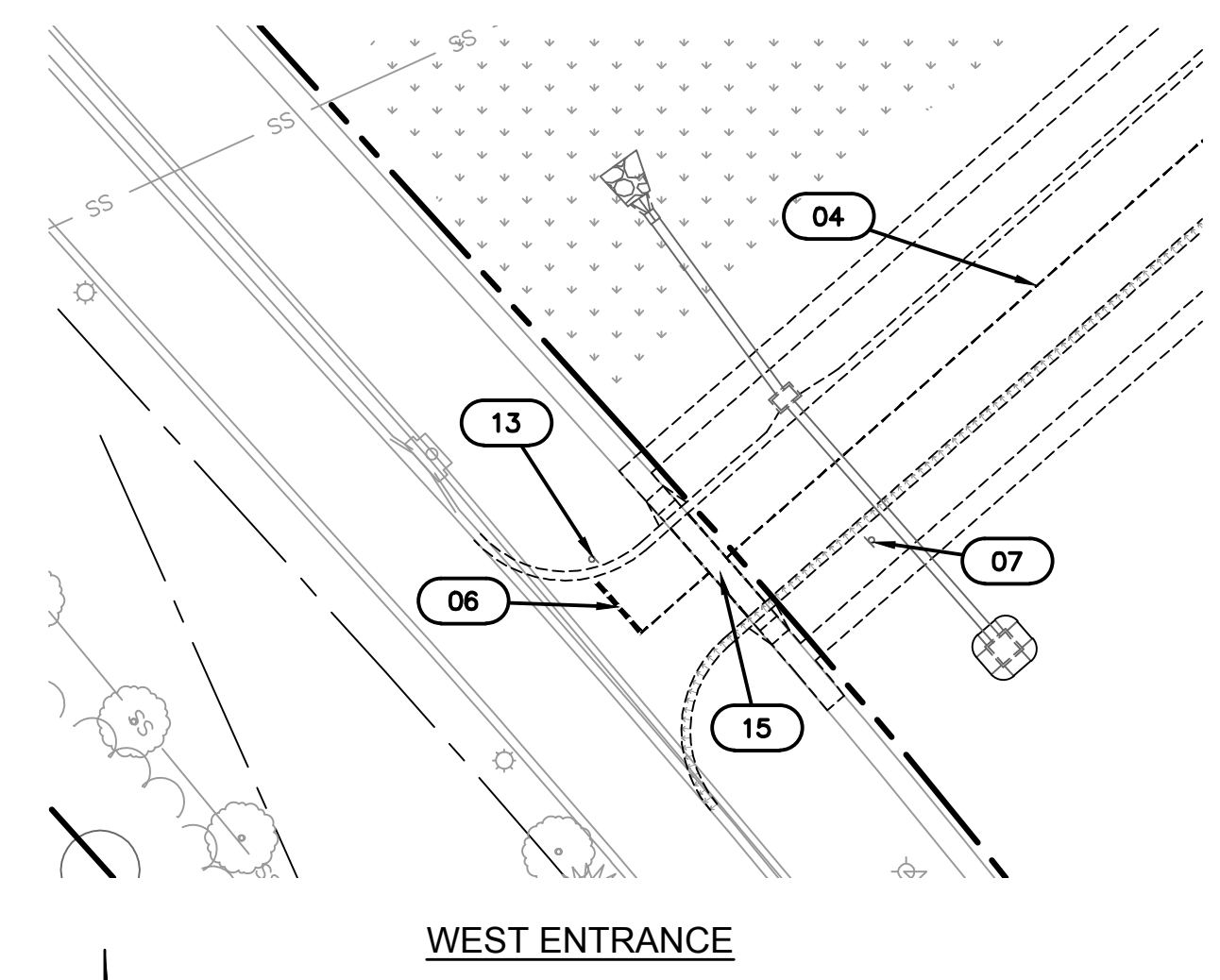


GENERAL LEGEND
 THIS LEGEND APPLIES TO ALL SHEETS WITH PLAN VIEWS.
 EXCEPTIONS ARE NOTED ON EACH SHEET WHERE APPLICABLE.
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND

- PROPERTY BOUNDARIES
- - - EASEMENT & SETBACK LINES
- SD—SD— PROPOSED STORM SEWER
- SS—SS— PROPOSED SAN. SEWER MAIN
- W—W— PROPOSED WATER SERVICE
- P-UG— PROPOSED UNDERGROUND POWER

EASEMENT LEGEND
 GE GAS EASEMENT

- KEYNOTES**
- 01 ADA STRIPING. SEE DETAIL SHEET C311.
 - 02 ADA SIGN. SEE DETAIL SHEET C311
 - 03 4" SOLID WHITE STRIPE.
 - 04 4" SOLID YELLOW STRIPE.
 - 05 MONUMENT SIGN (PER ARCH PLANS).
 - 06 STOP BAR
 - 07 "SPEED LIMIT 15" SIGN
 - 08 "PARENT DROP-OFF LANE" SIGN
 - 09 "LEFT ONLY" SIGN
 - 10 "STOP SIGN & RIGHT ONLY" SIGN
 - 11 SPEED TABLE (SEE SHEET C422)
 - 12 SPEED TABLE (AS PART OF BID ALT)
 - 13 STOP SIGN R1-1
 - 14 REDUCED SPEED & RIGHT TURN ONLY LANE SIGN
 - 15 CROSSWALK
 - 16 PAINT DIRECTIONAL ARROW ORIENTED AS SHOWN. SEE DETAIL ON SHEET C312.
 - 17 CONCRETE WHEEL STOP. SEE DETAIL SHEET C311.



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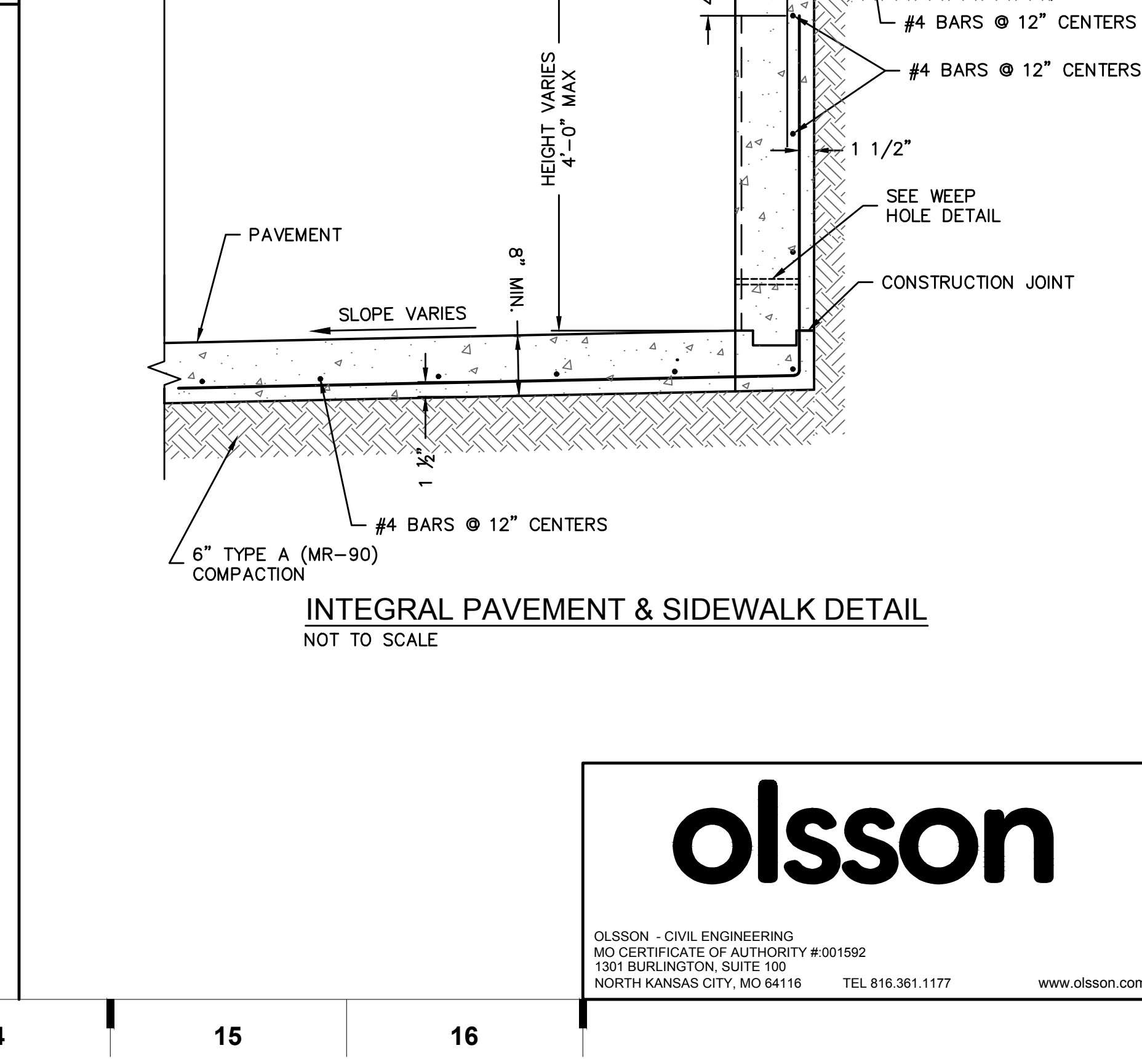
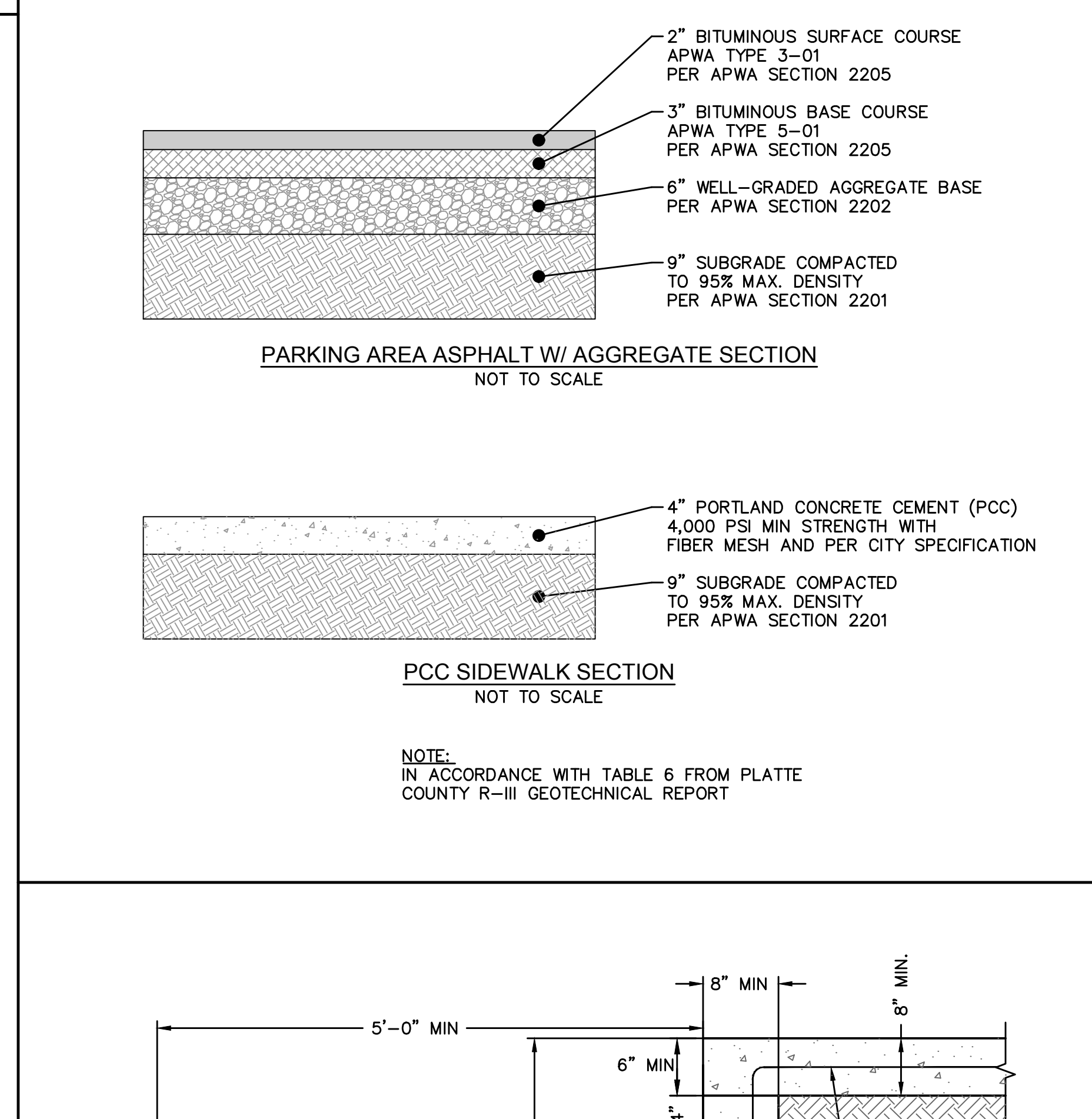
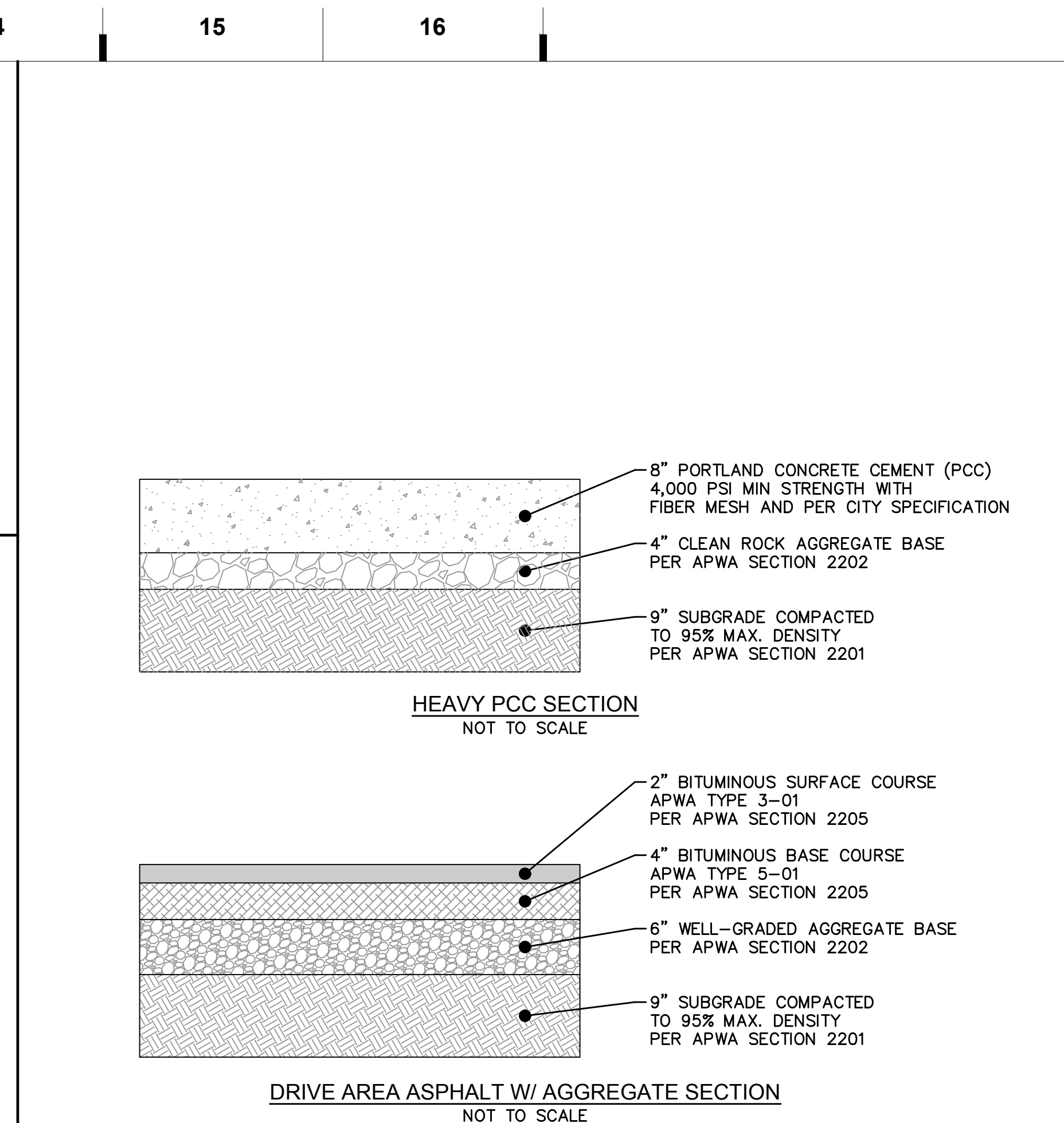
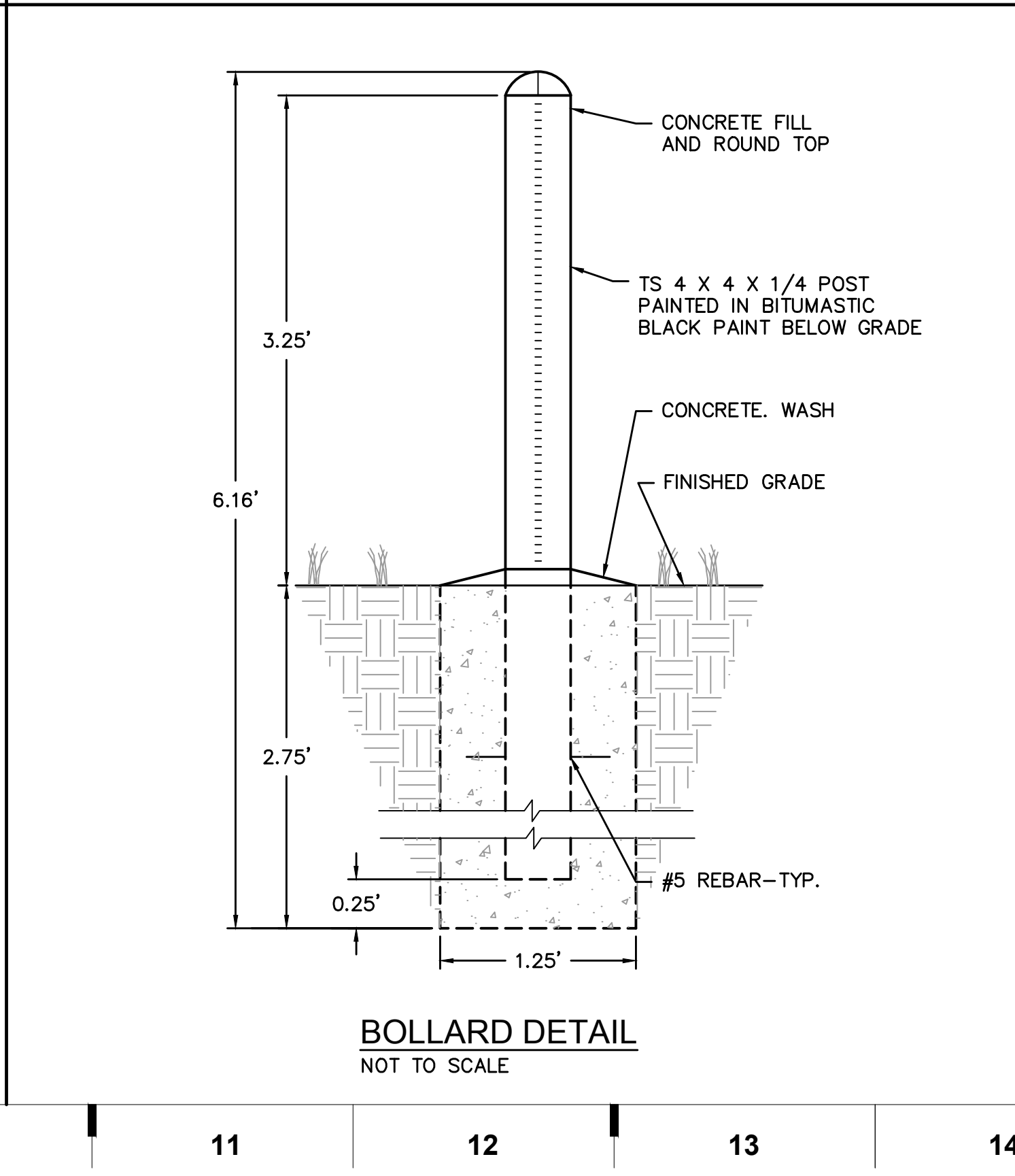
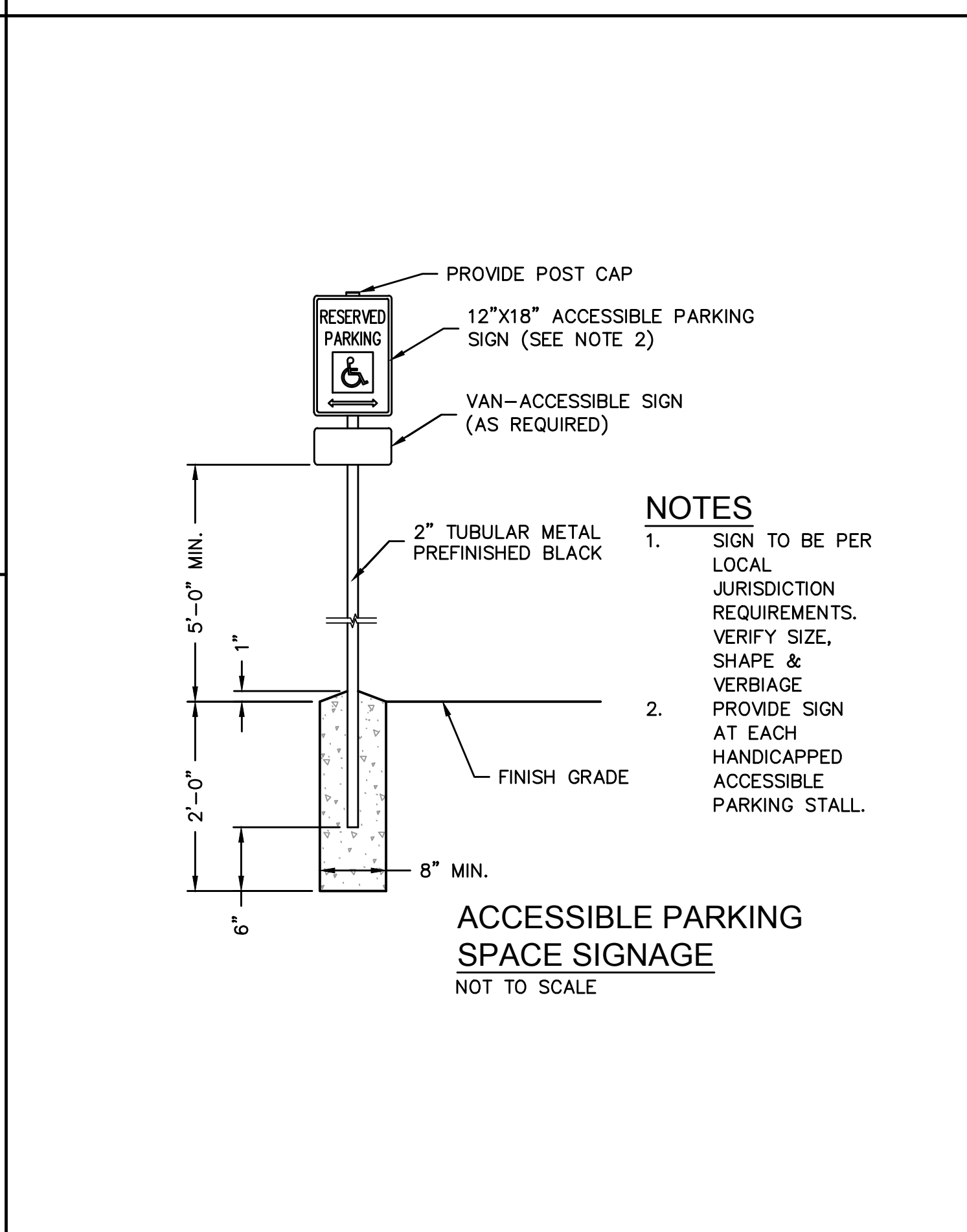
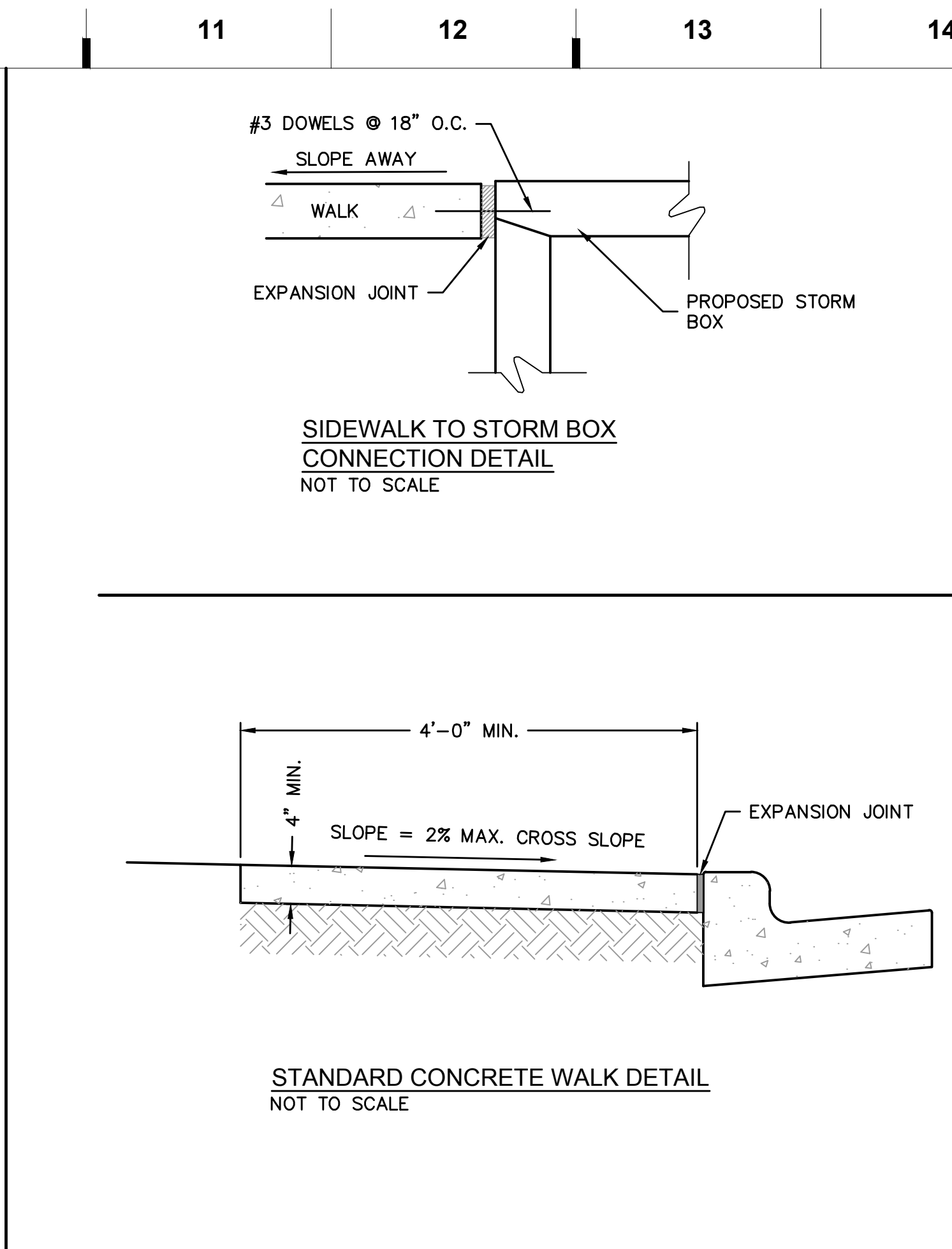
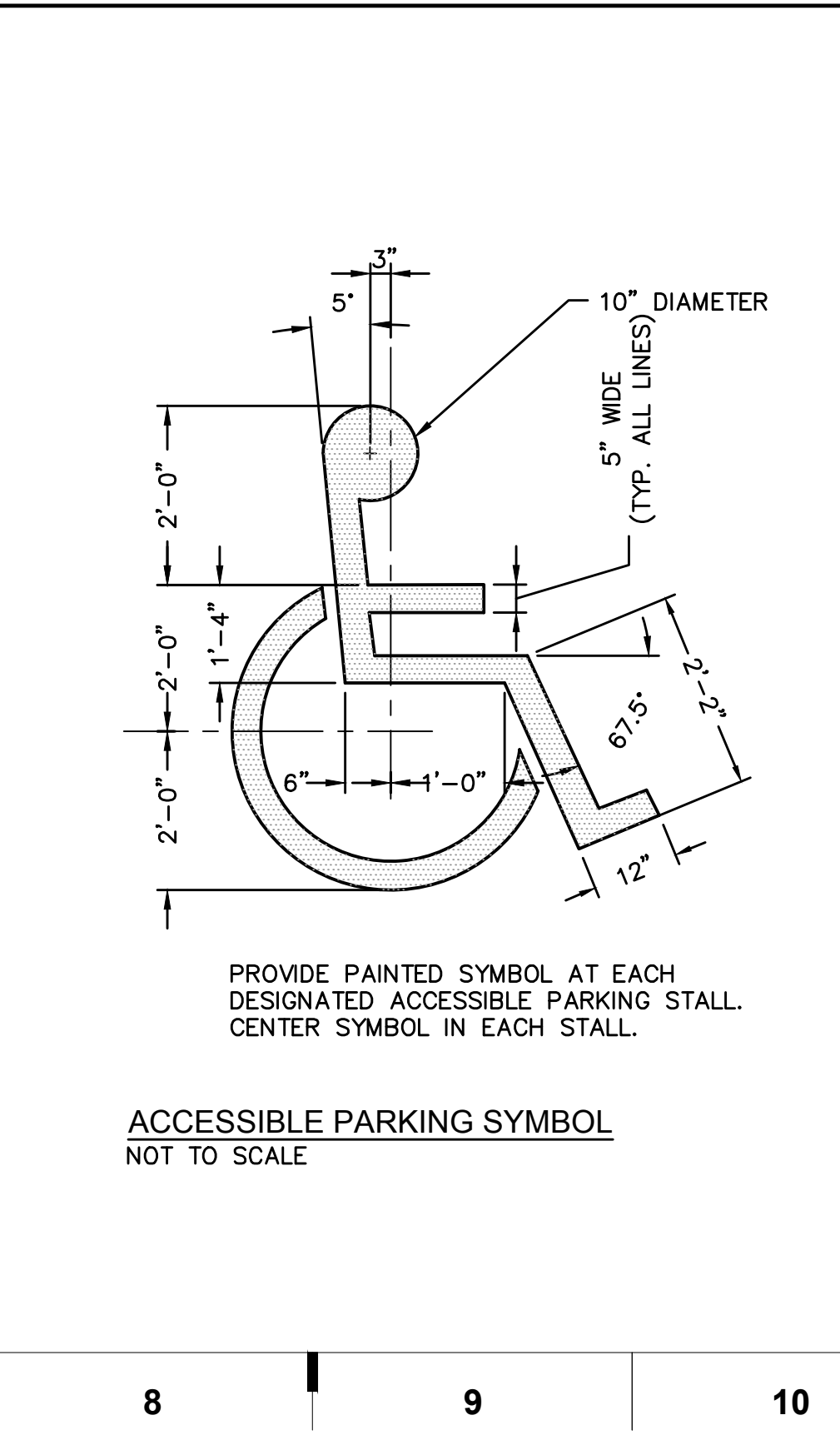
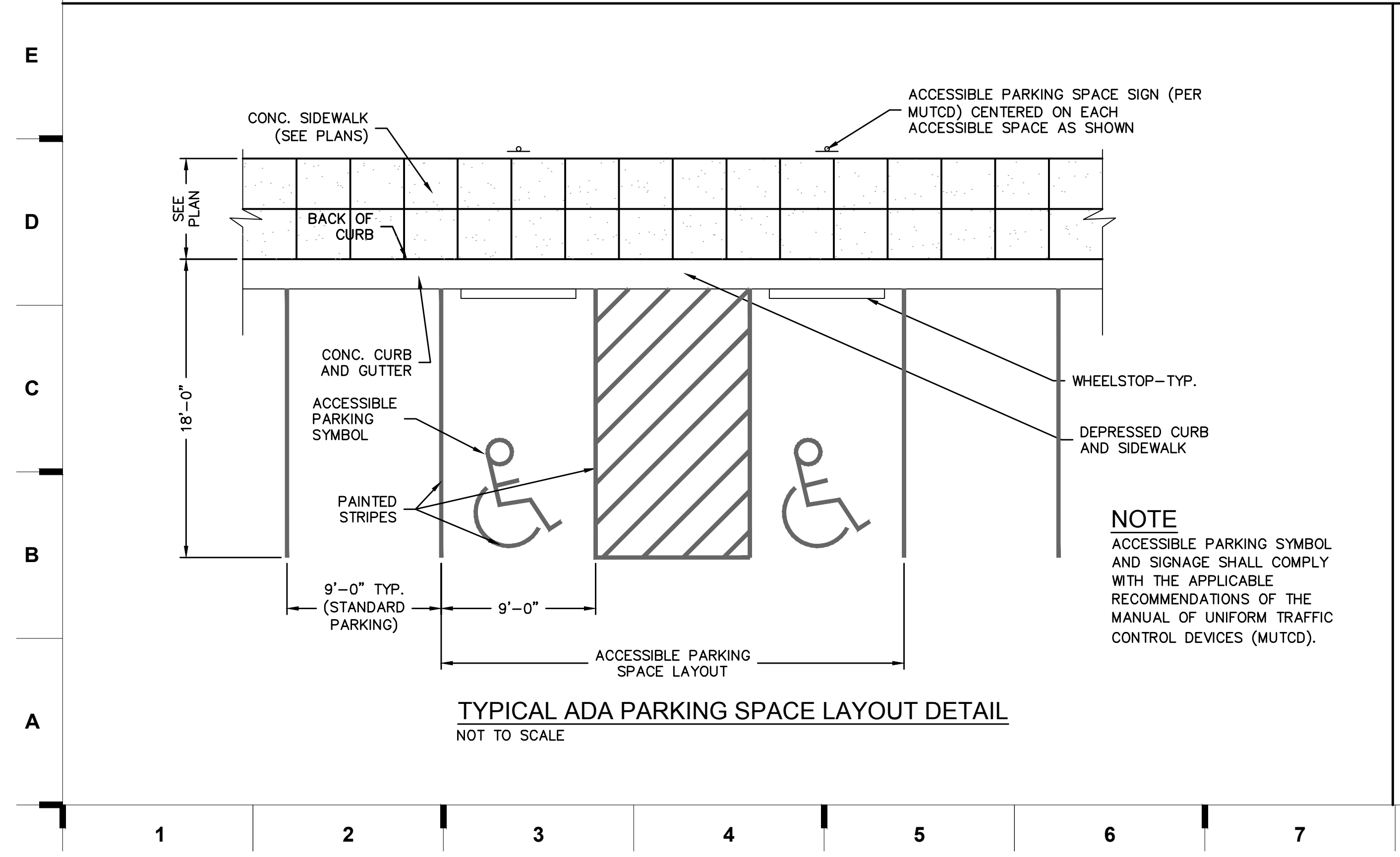
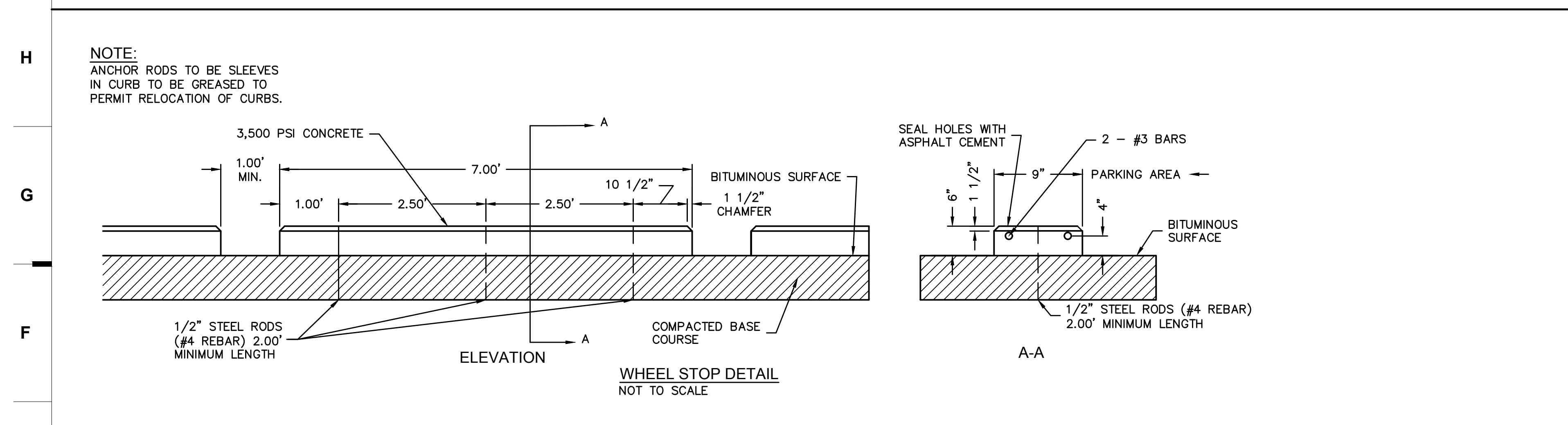
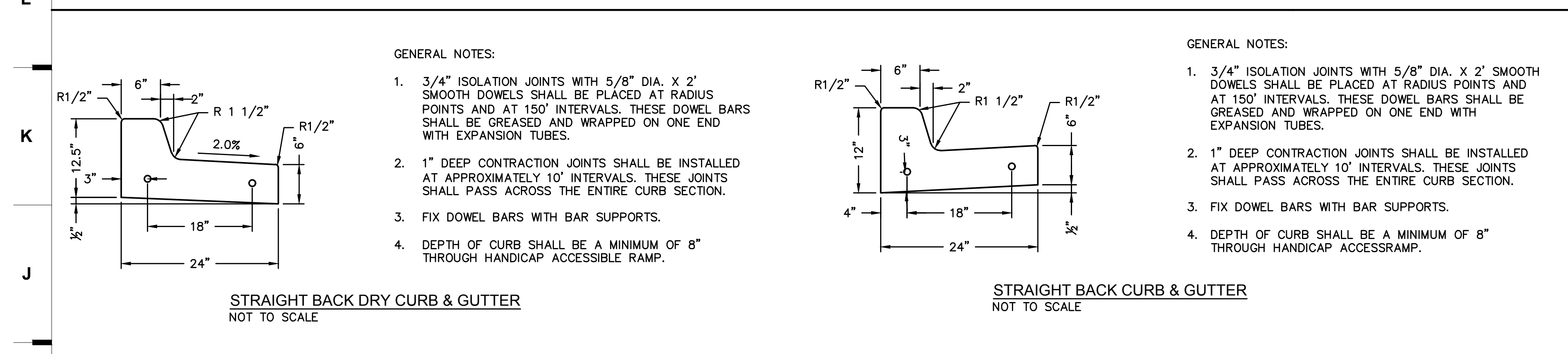
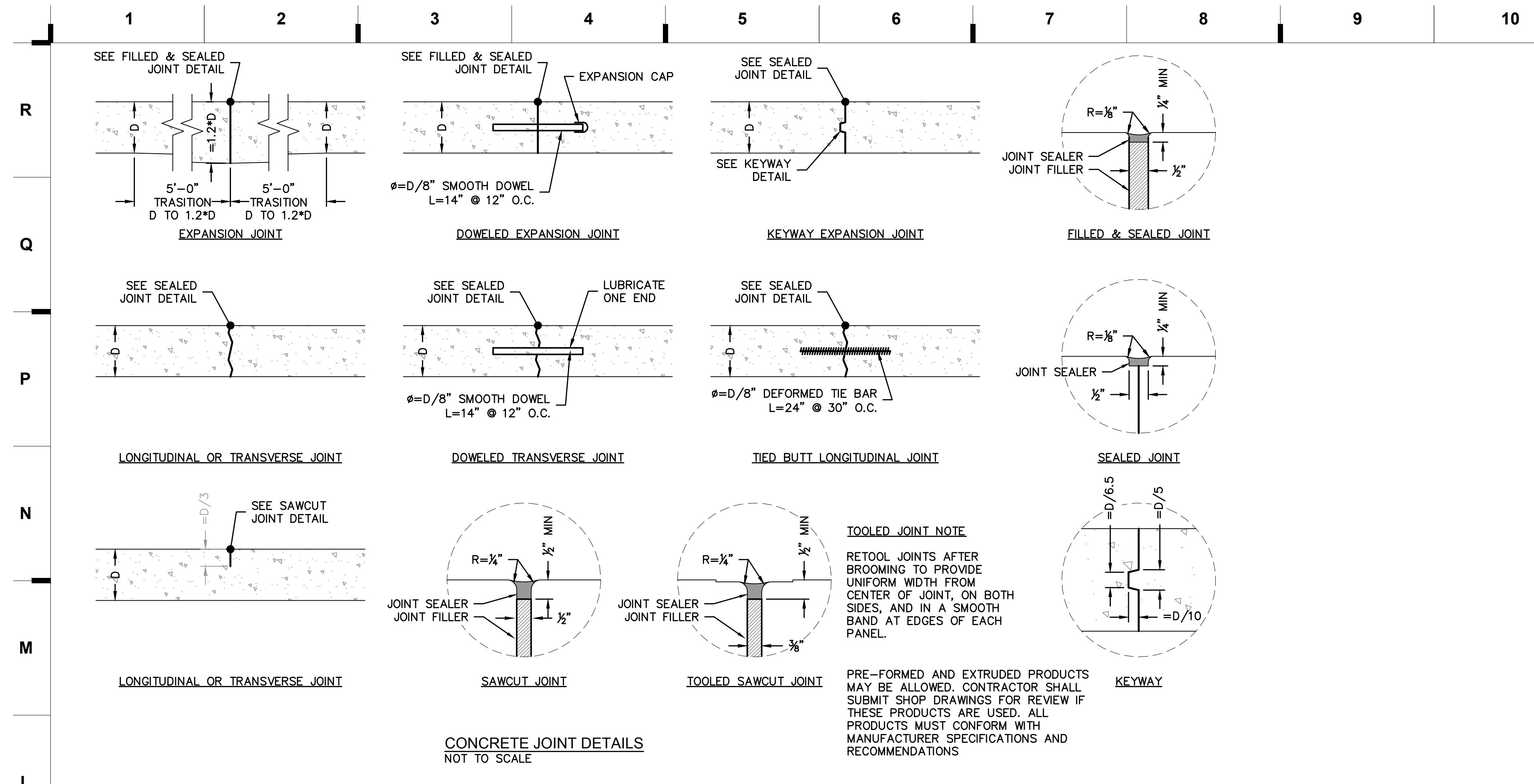
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Structure # 20000333

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Henderson Engineers
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Henderson Engineers
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Platte County Middle School
Platte County School District
N Platte Purchase Drive & NW 95th,
Kansas City, MO 64154

REVISIONS:

#	Description	Date

STATE OF MISSOURI
DAVID L. EICKMAN
NUMBER
PE-39901-2439
SINCE
11/16/2016
PROFESSIONAL ENGINEER

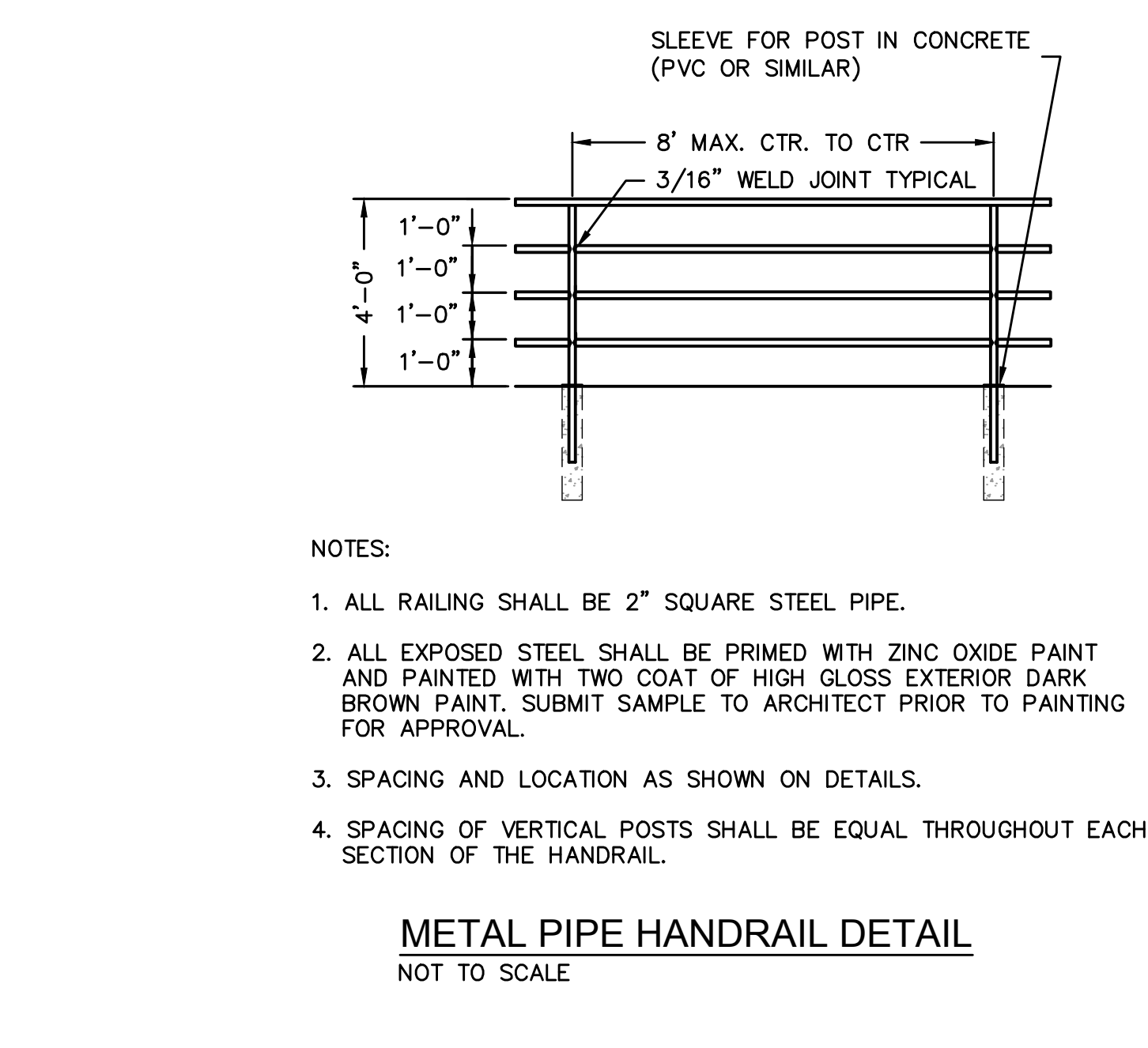
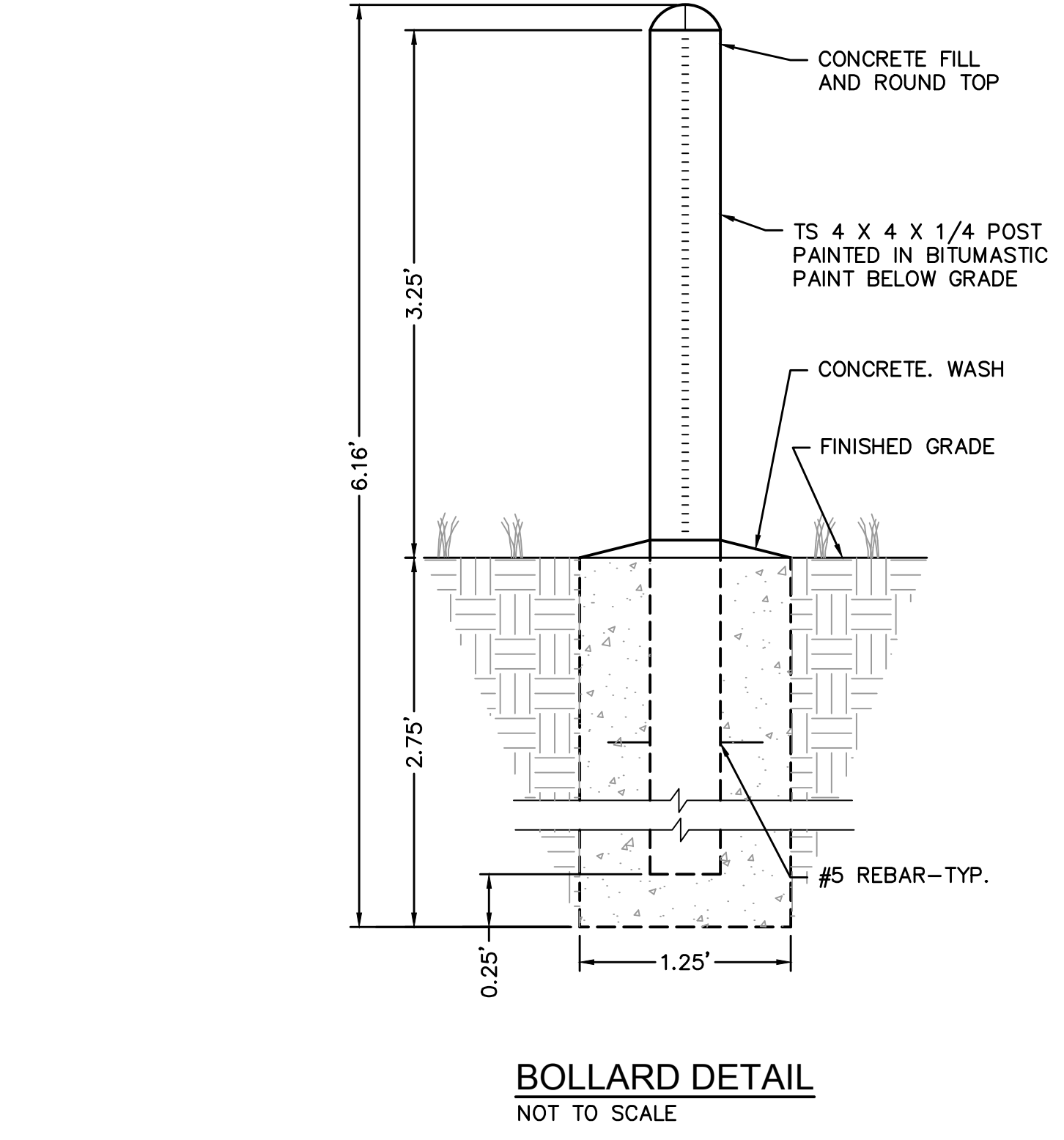
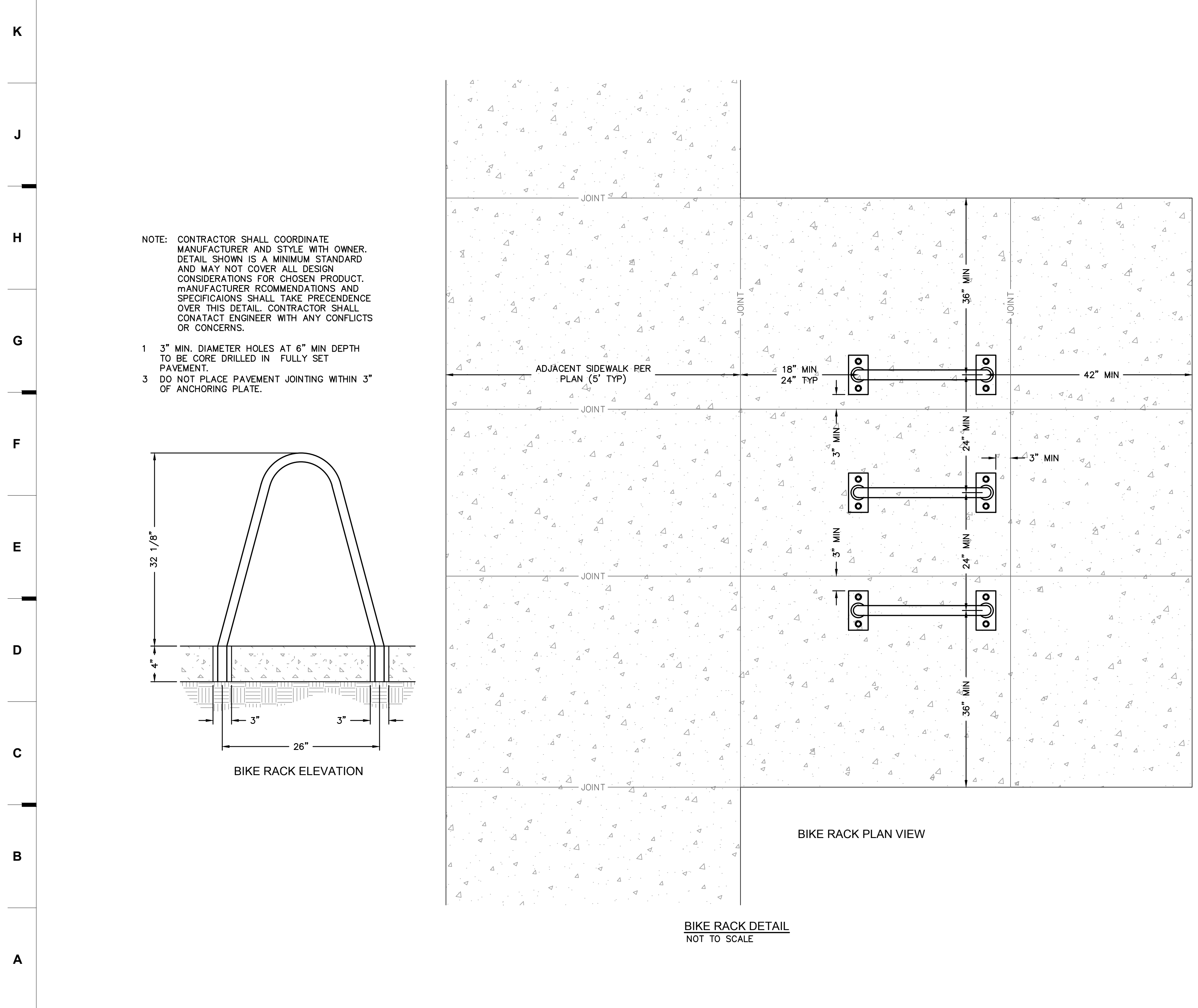
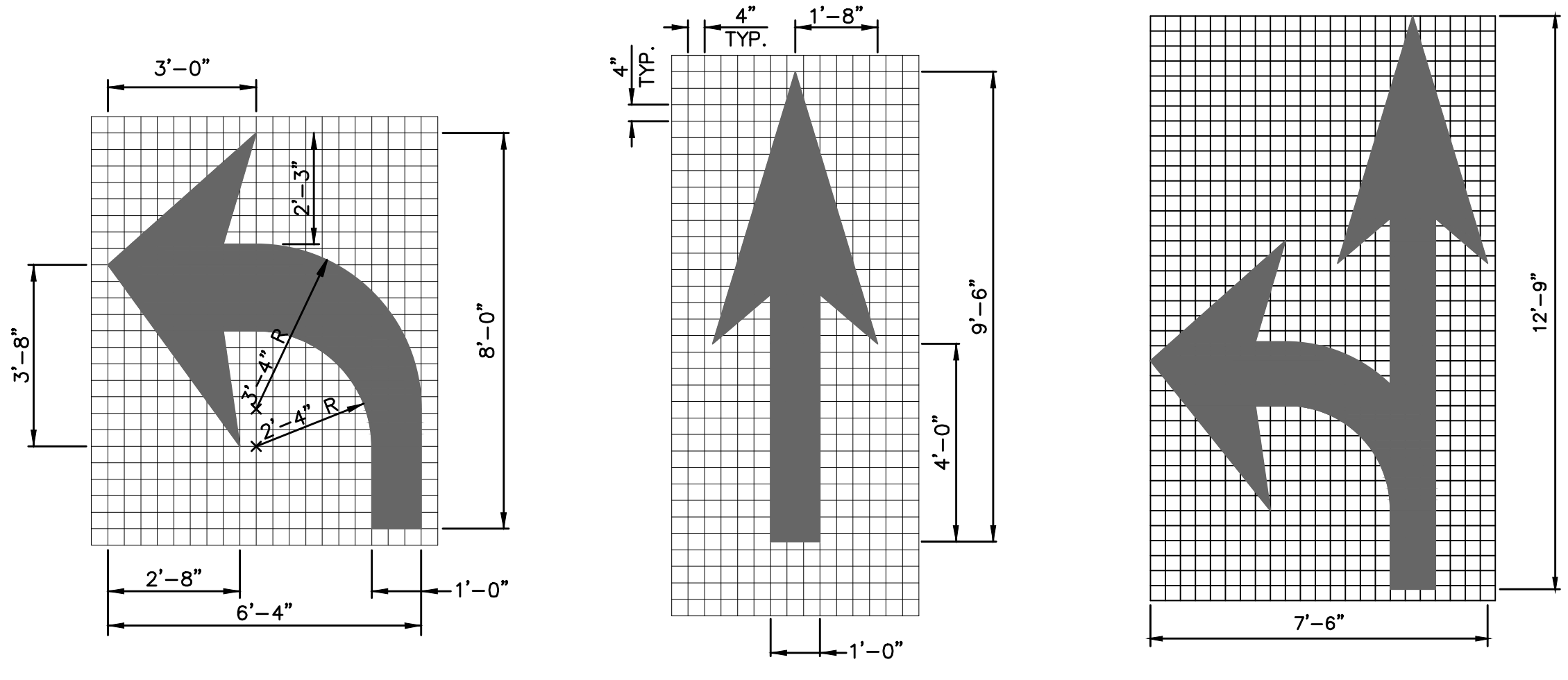
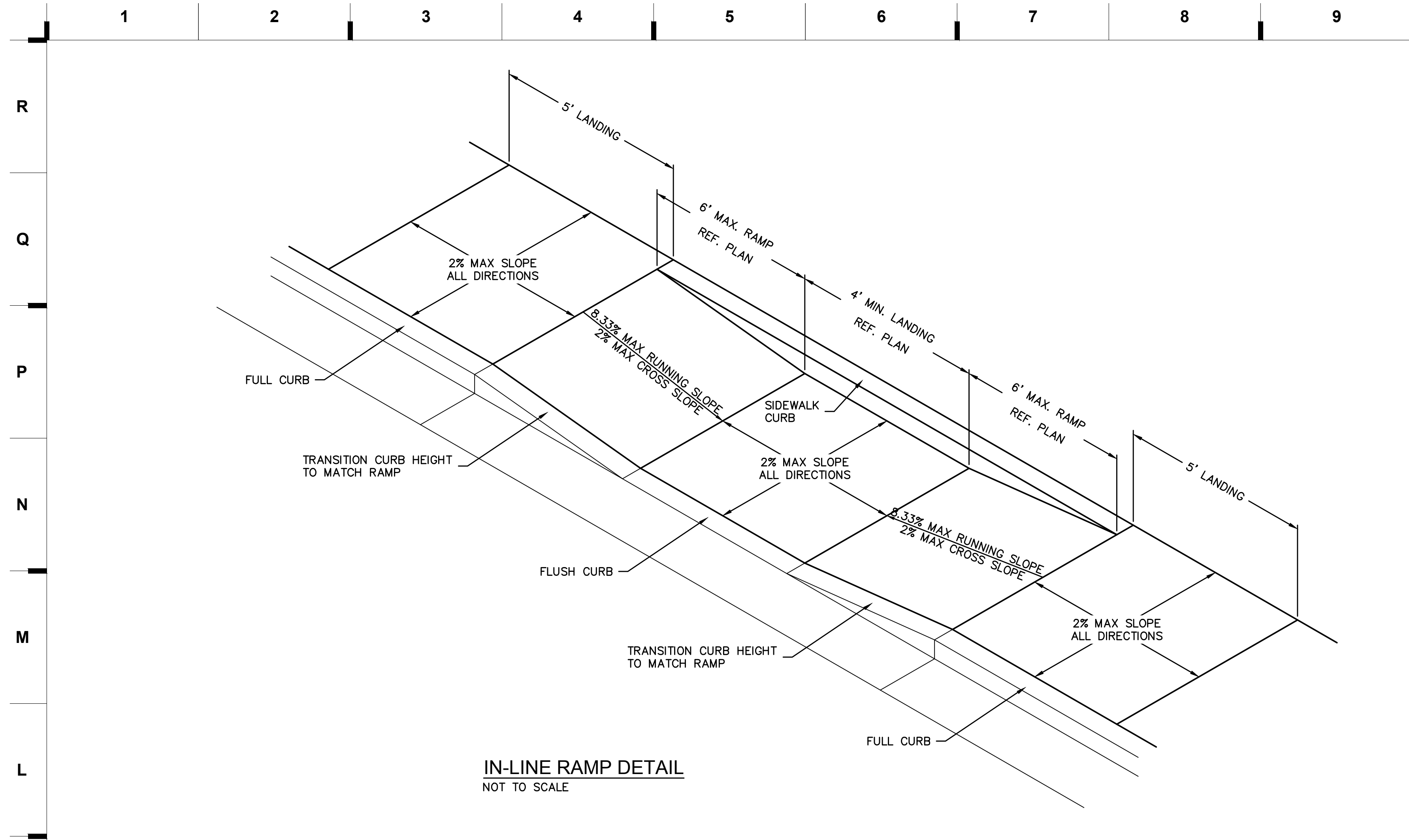
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C311

SITE DEVELOPMENT PACKAGE

SITE DETAILS



- NOTES:
1. ALL RAILING SHALL BE 2" SQUARE STEEL PIPE.
 2. ALL EXPOSED STEEL SHALL BE PRIMED WITH ZINC OXIDE PAINT AND PAINTED WITH TWO COAT OF HIGH GLOSS EXTERIOR DARK BROWN PAINT. SUBMIT SAMPLE TO ARCHITECT PRIOR TO PAINTING FOR APPROVAL.
 3. SPACING AND LOCATION AS SHOWN ON DETAILS.
 4. SPACING OF VERTICAL POSTS SHALL BE EQUAL THROUGHOUT EACH SECTION OF THE HANDRAIL.

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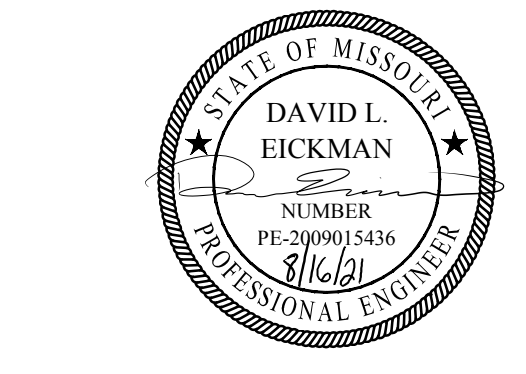
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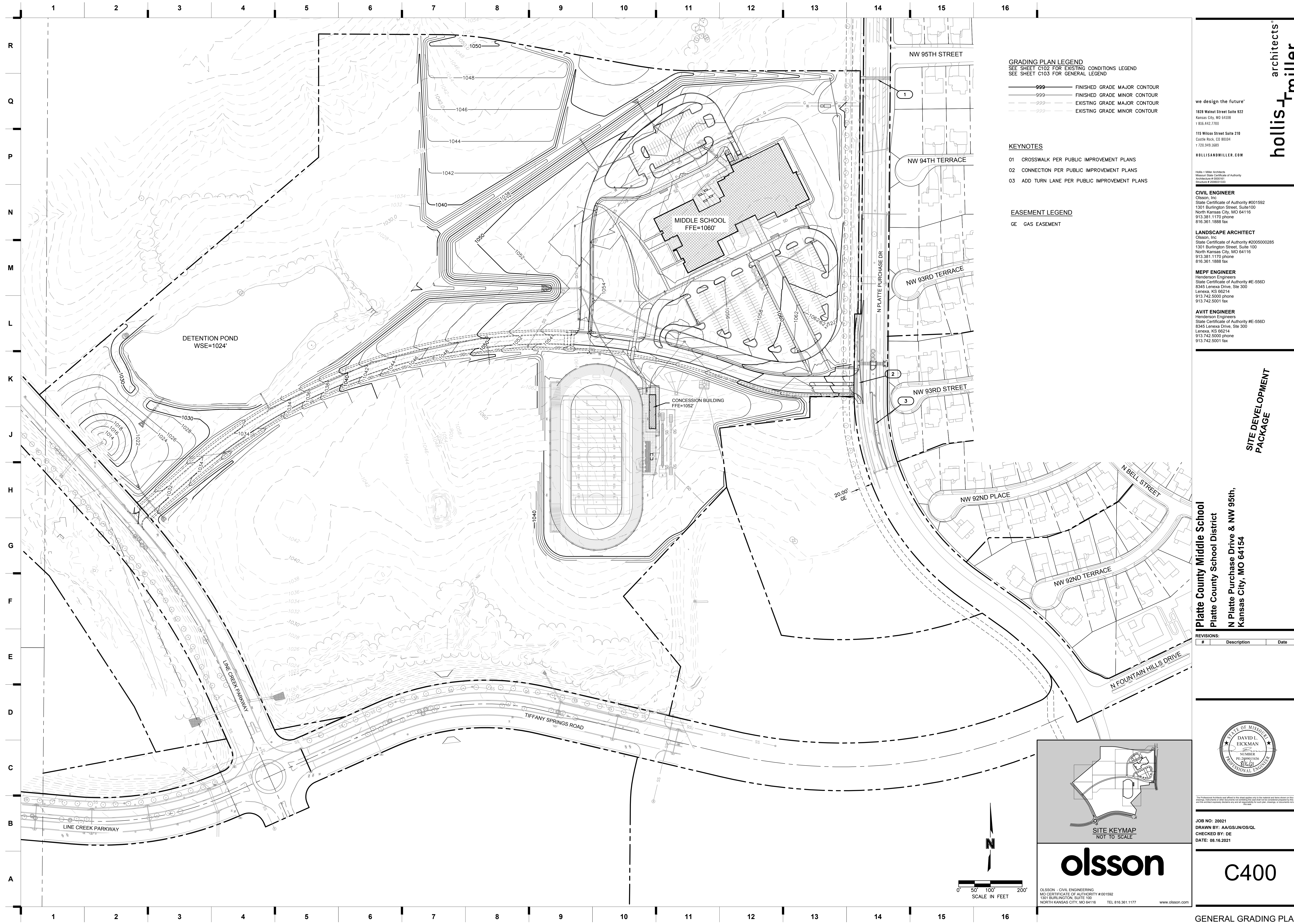
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C312



GRADING PLAN LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND

- 999— FINISHED GRADE MAJOR CONTOUR
- 999— FINISHED GRADE MINOR CONTOUR
- - -999- - - EXISTING GRADE MAJOR CONTOUR
- - -999- - - EXISTING GRADE MINOR CONTOUR

KEYNOTES

- 01 CROSSWALK PER PUBLIC IMPROVEMENT PLANS
- 02 CONNECTION PER PUBLIC IMPROVEMENT PLANS
- 03 ADD TURN LANE PER PUBLIC IMPROVEMENT PLANS

EASEMENT LEGEND

- GE GAS EASEMENT

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 Structure # 000031331

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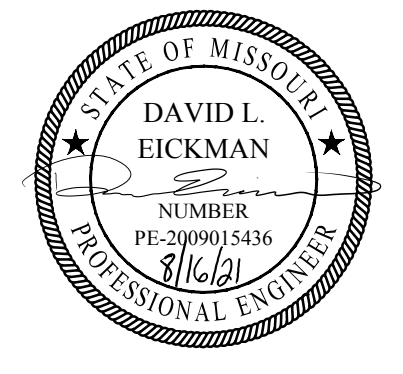
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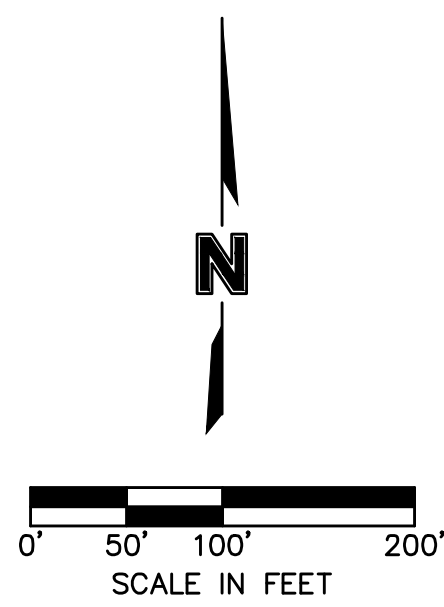
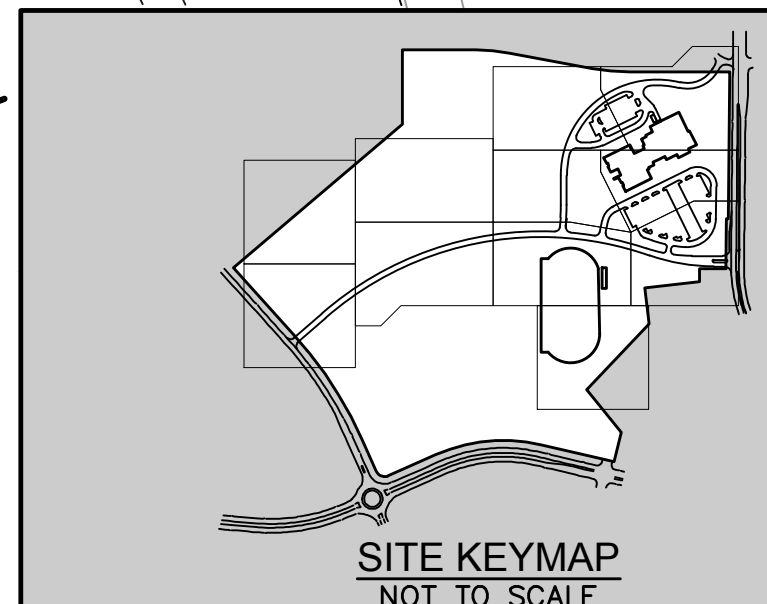
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LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS

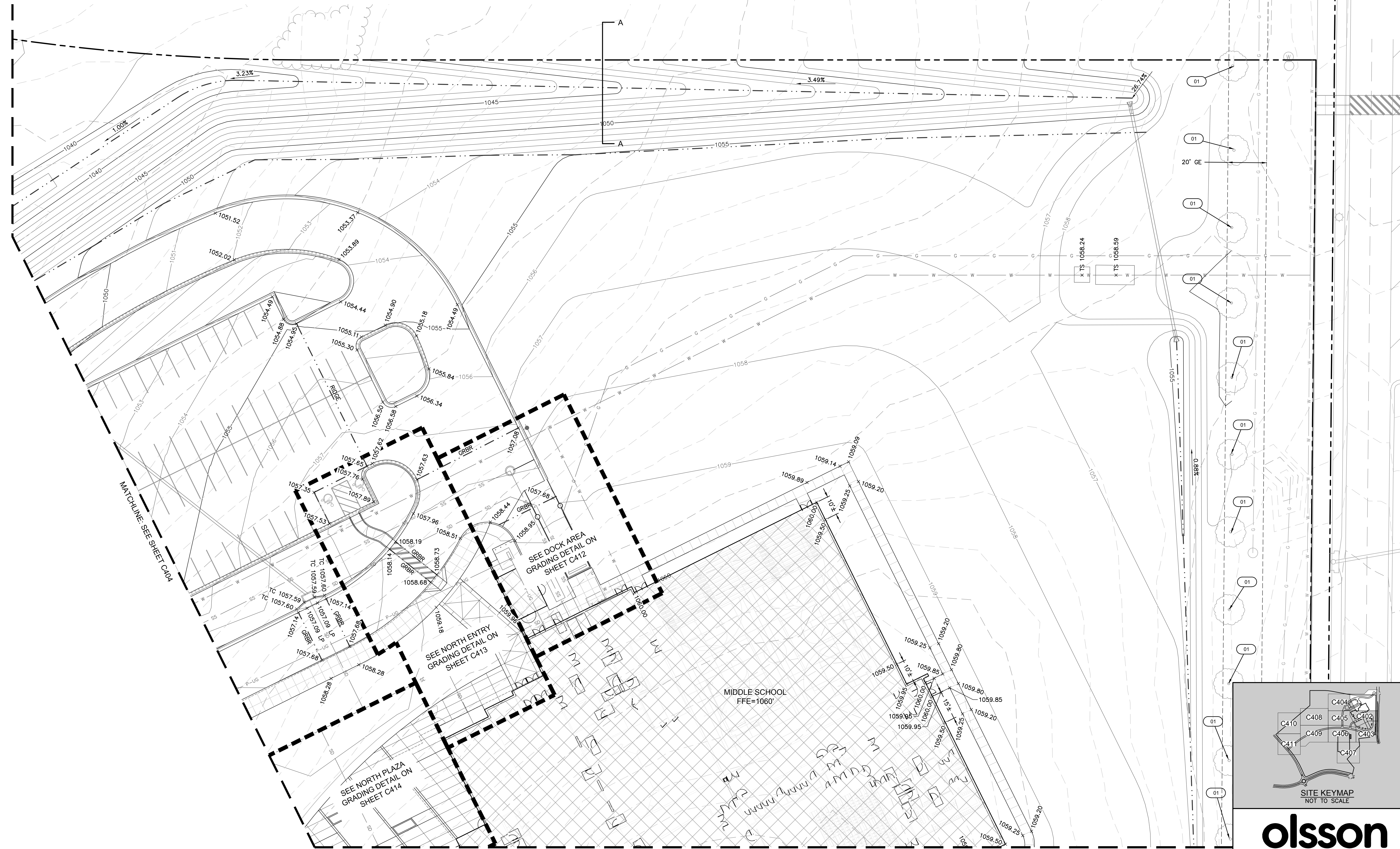
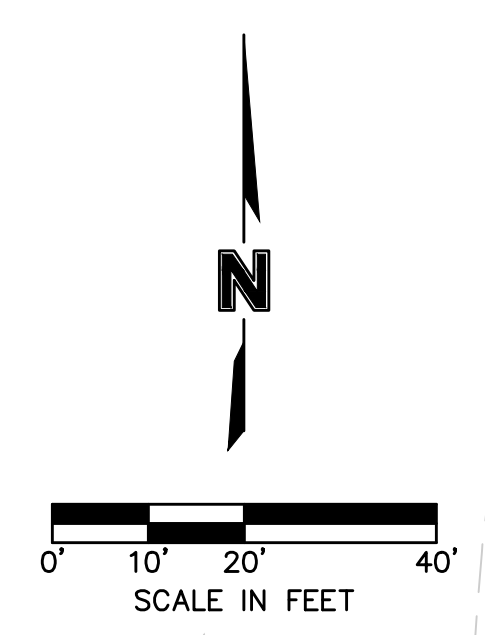
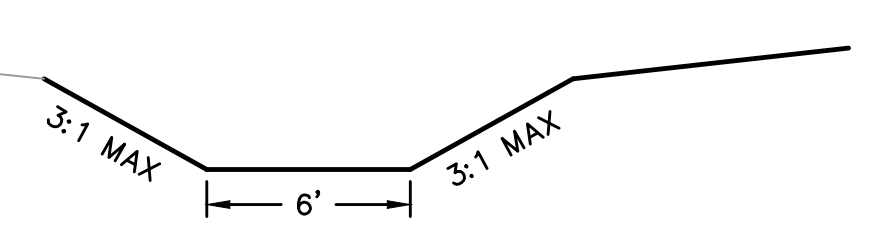
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 --- 700 --- EXISTING GRADE MINOR CONTOUR
 ——— 700 ——— FINISHED GRADE MAJOR CONTOUR
 ——— 700 ——— FINISHED GRADE MINOR CONTOUR
 - - - - - GRADE BREAK LINE
 ===== INSTALL STANDARD "DRY"
 CURB & GUTTER

SPOT ELEVATION LEGEND
 ALL SPOT ELEVATIONS ARE TO EDGE OF PAVEMENT/LIP OF CURB OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED AS BELOW.

HP HIGH POINT
 LP LOW POINT
 ME MATCH EXISTING
 TC TOP OF CURB AT BACK
 TS TOP OF STRUCTURE
 HFG HIGH FINISHED GRADE ADJACENT TO WALL
 LFG LOW FINISHED GRADE ADJACENT TO WALL

EASEMENT LEGEND
 VW VARIABLE WIDTH
 EX EXISTING
 PR PROPOSED
 GE GAS EASEMENT

KEYNOTES
 01 EXISTING TREE TO REMAIN, CONTRACTOR SHALL PROTECT AND AVOID DISTURBING ROOT SYSTEM IF POSSIBLE.



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 Structure # 000903333

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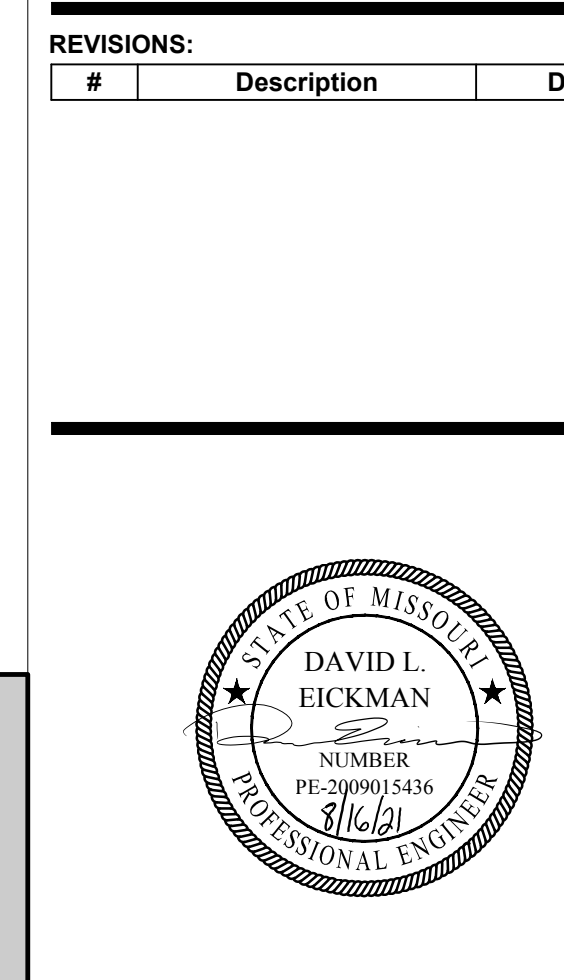
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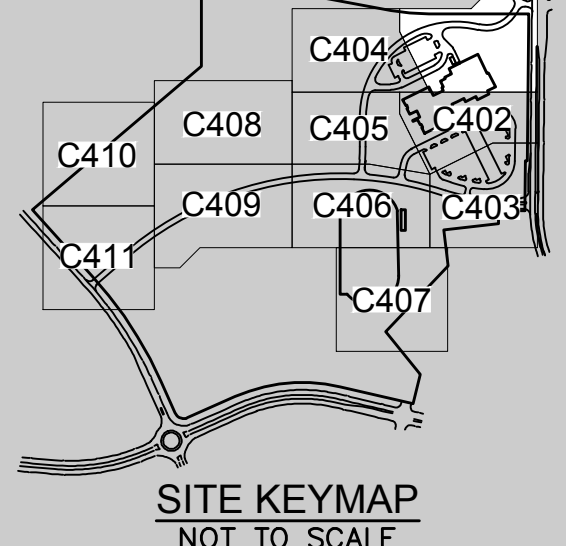
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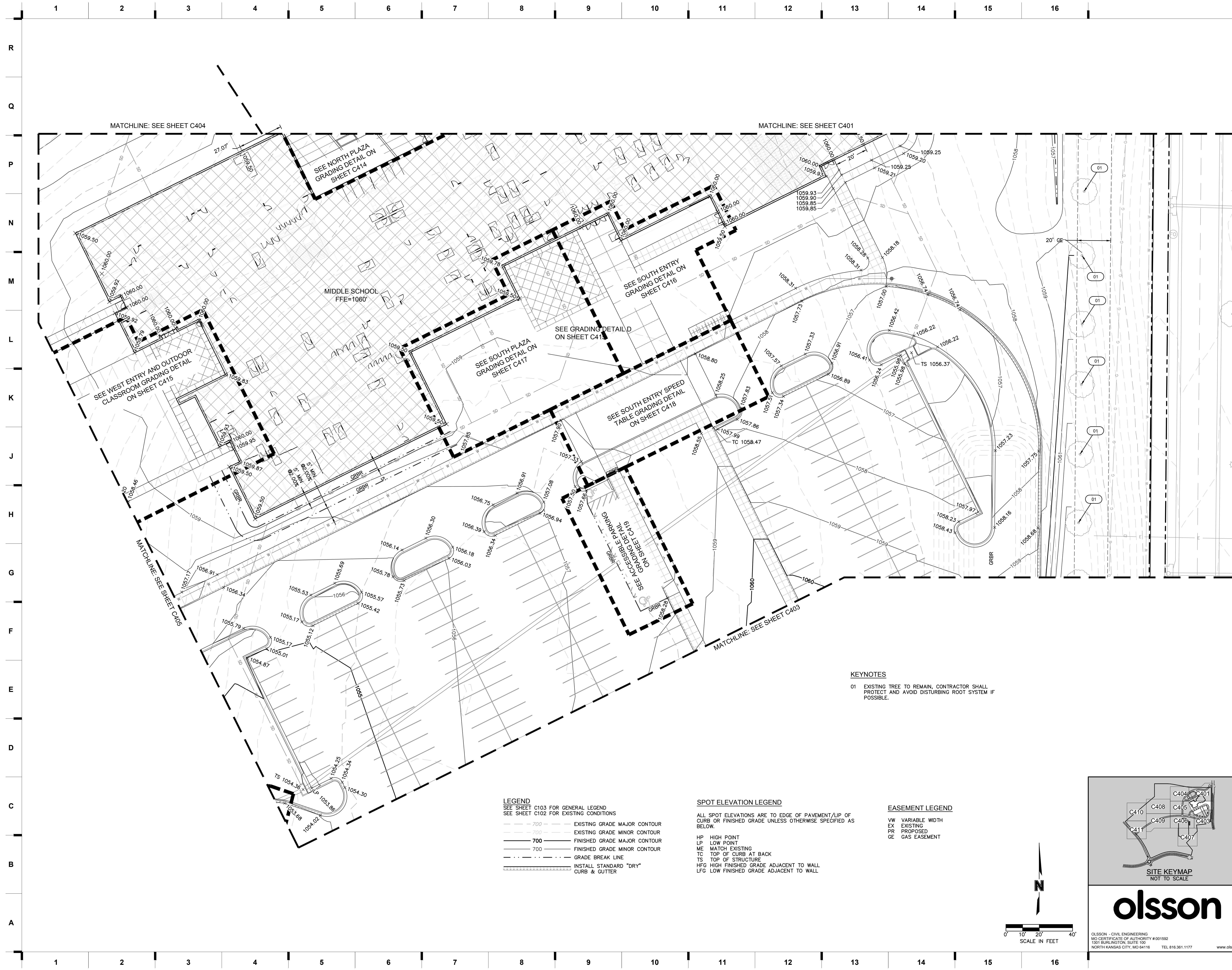
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GRADING PLAN

8/13/2021 10:09:55 AM



KEYNOTES
 01 EXISTING TREE TO REMAIN, CONTRACTOR SHALL PROTECT AND AVOID DISTURBING ROOT SYSTEM IF POSSIBLE.

LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS

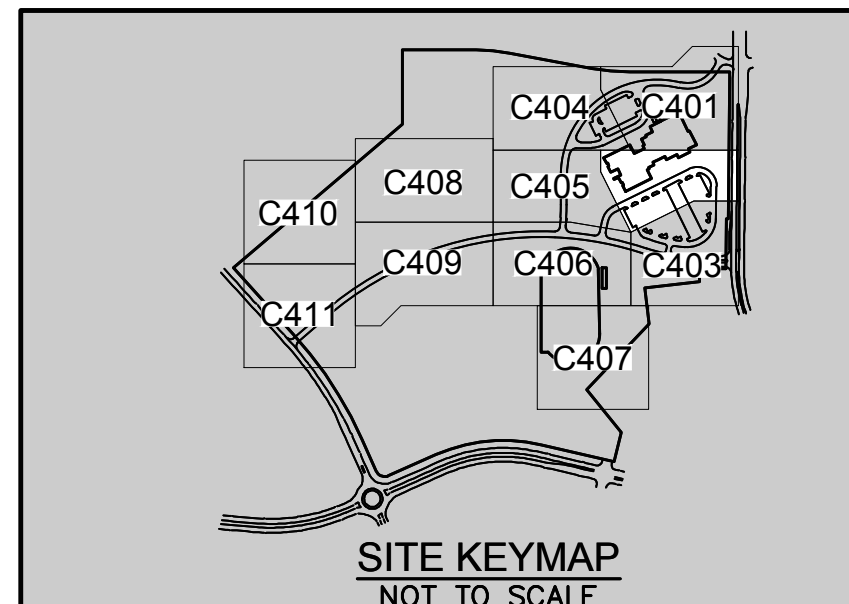
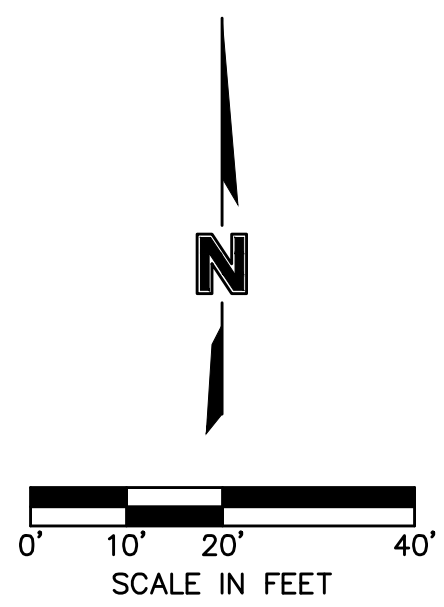
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- 700 --- EXISTING GRADE MINOR CONTOUR
- 700 — FINISHED GRADE MAJOR CONTOUR
- 700 — FINISHED GRADE MINOR CONTOUR
- --- GRADE BREAK LINE
- --- INSTALL STANDARD "DRY" CURB & GUTTER

SPOT ELEVATION LEGEND
 ALL SPOT ELEVATIONS ARE TO EDGE OF PAVEMENT/LIP OF CURB OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED AS BELOW.

- HP HIGH POINT
- LP LOW POINT
- ME MATCH EXISTING
- TC TOP OF CURB AT BACK
- TS TOP OF STRUCTURE
- HFG HIGH FINISHED GRADE ADJACENT TO WALL
- LFG LOW FINISHED GRADE ADJACENT TO WALL

EASEMENT LEGEND

- VW VARIABLE WIDTH
- EX EXISTING
- PR PROPOSED
- GE GAS EASEMENT



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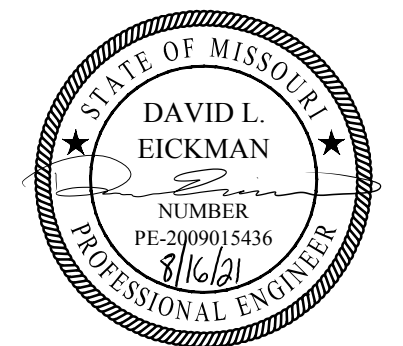
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C402

LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS

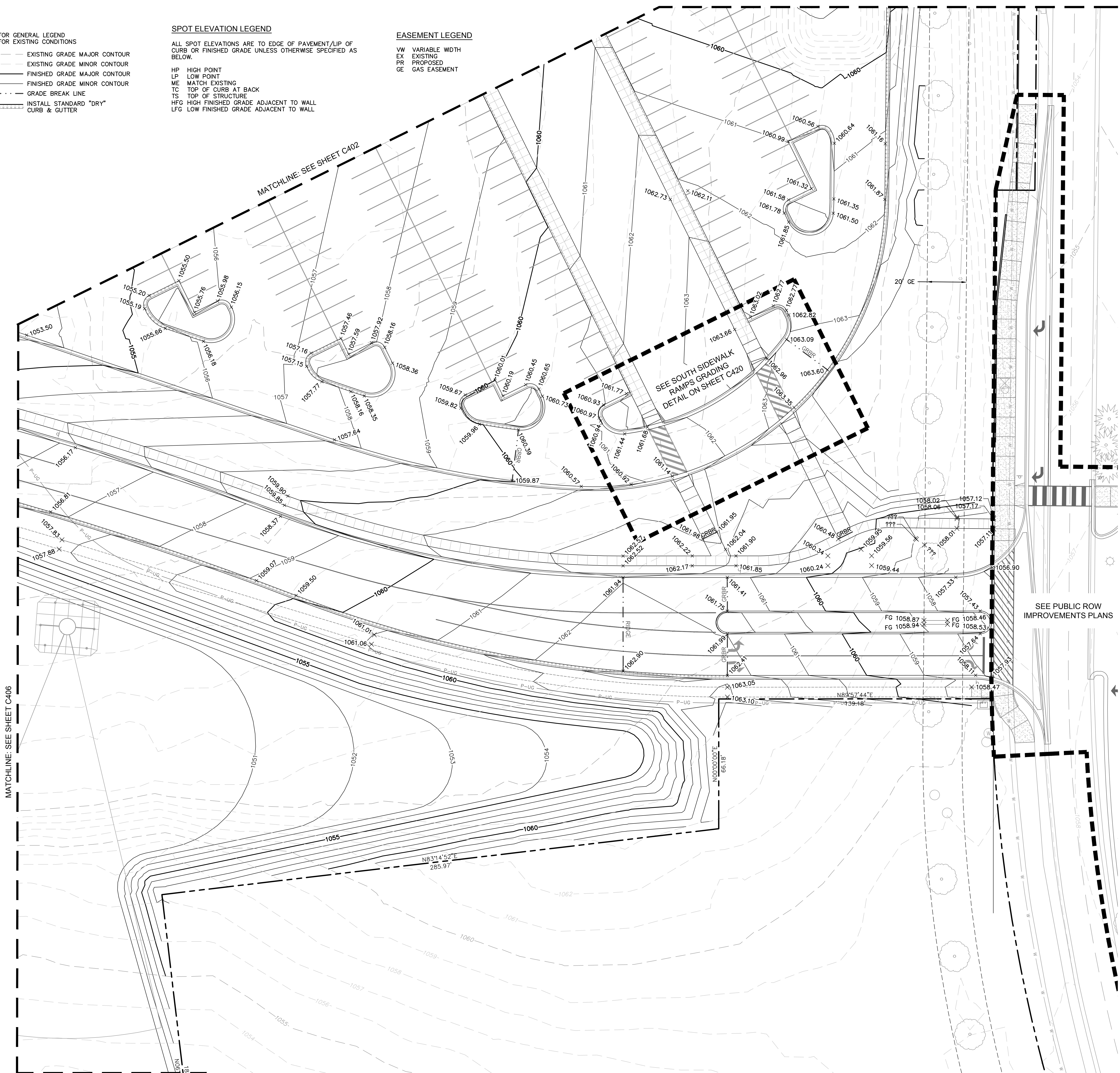
- 700 --- EXISTING GRADE MAJOR CONTOUR
- 700 --- EXISTING GRADE MINOR CONTOUR
- 700 — FINISHED GRADE MAJOR CONTOUR
- 700 — FINISHED GRADE MINOR CONTOUR
- - - - - GRADE BREAK LINE
- ==== INSTALL STANDARD "DRY" CURB & GUTTER

SPOT ELEVATION LEGEND

- ALL SPOT ELEVATIONS ARE TO EDGE OF PAVEMENT/LIP OF CURB OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED AS BELOW.
- HP HIGH POINT
 - LP LOW POINT
 - ME MATCH EXISTING
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 - TS TOP OF STRUCTURE
 - HFG HIGH FINISHED GRADE ADJACENT TO WALL
 - LFG LOW FINISHED GRADE ADJACENT TO WALL

EASEMENT LEGEND

- VW VARIABLE WIDTH
- EX EXISTING
- PR PROPOSED
- GE GAS EASEMENT



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 Structure # 000903333

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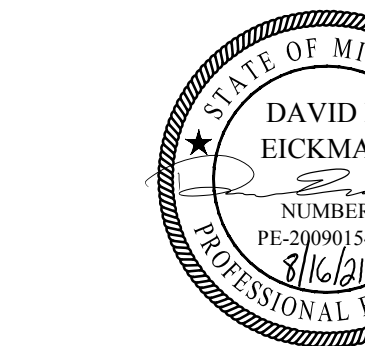
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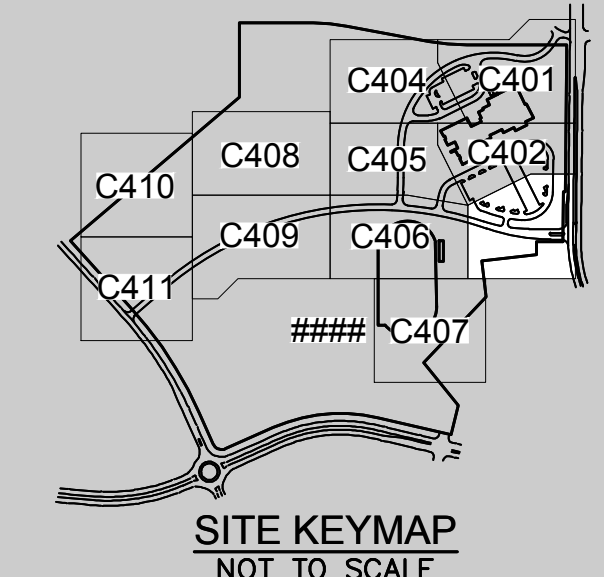
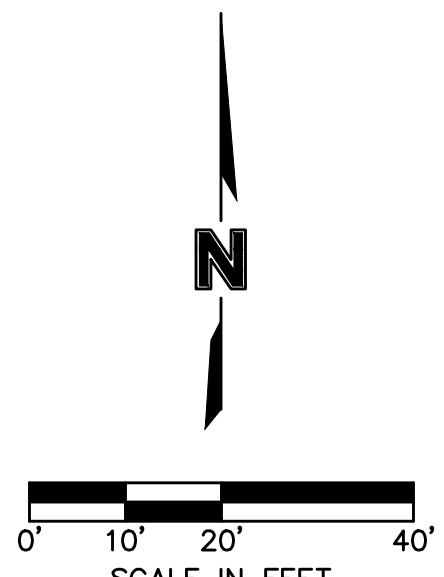
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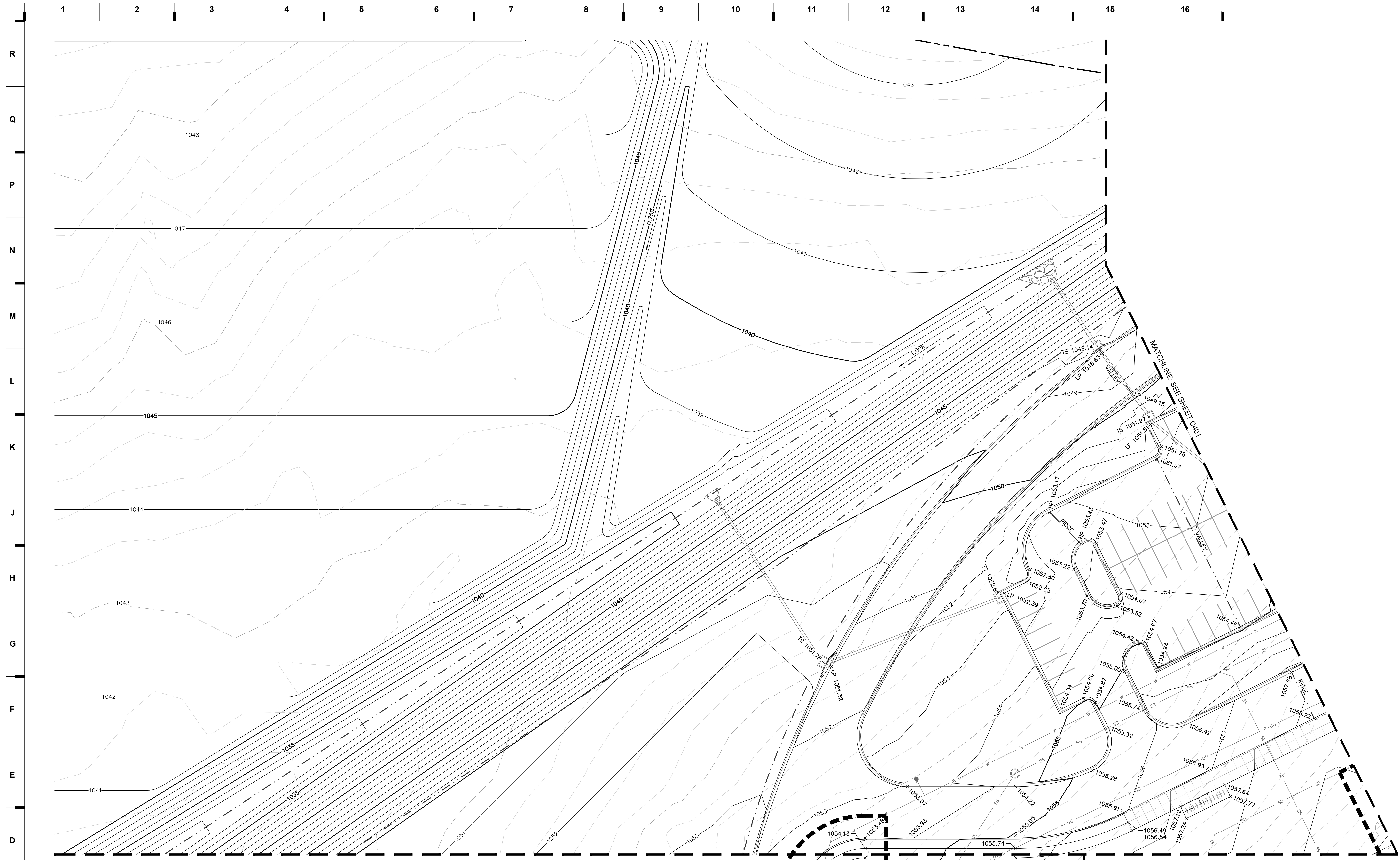
MATCHLINE: SEE SHEET C407

MATCHLINE: SEE SHEET C402

SEE SOUTH SIDEWALK RAMPS GRADING DETAIL ON SHEET C420

SEE PUBLIC ROW IMPROVEMENTS PLANS





8/13/2021 10:09:55 AM

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LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS

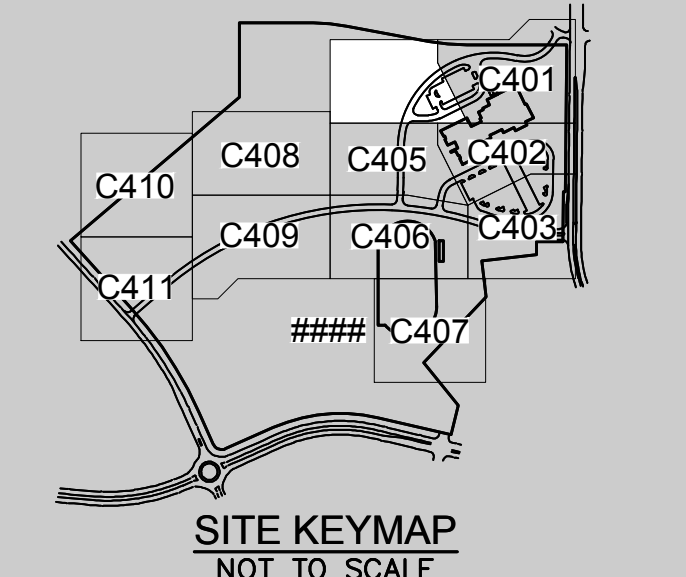
- 700 --- EXISTING GRADE MAJOR CONTOUR
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EASEMENT LEGEND

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- EX EXISTING
- PR PROPOSED
- GE GAS EASEMENT



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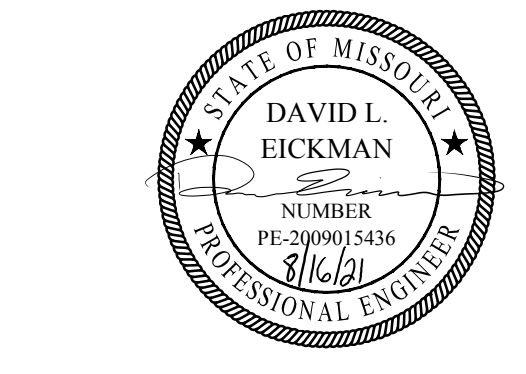
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#	Description	Date



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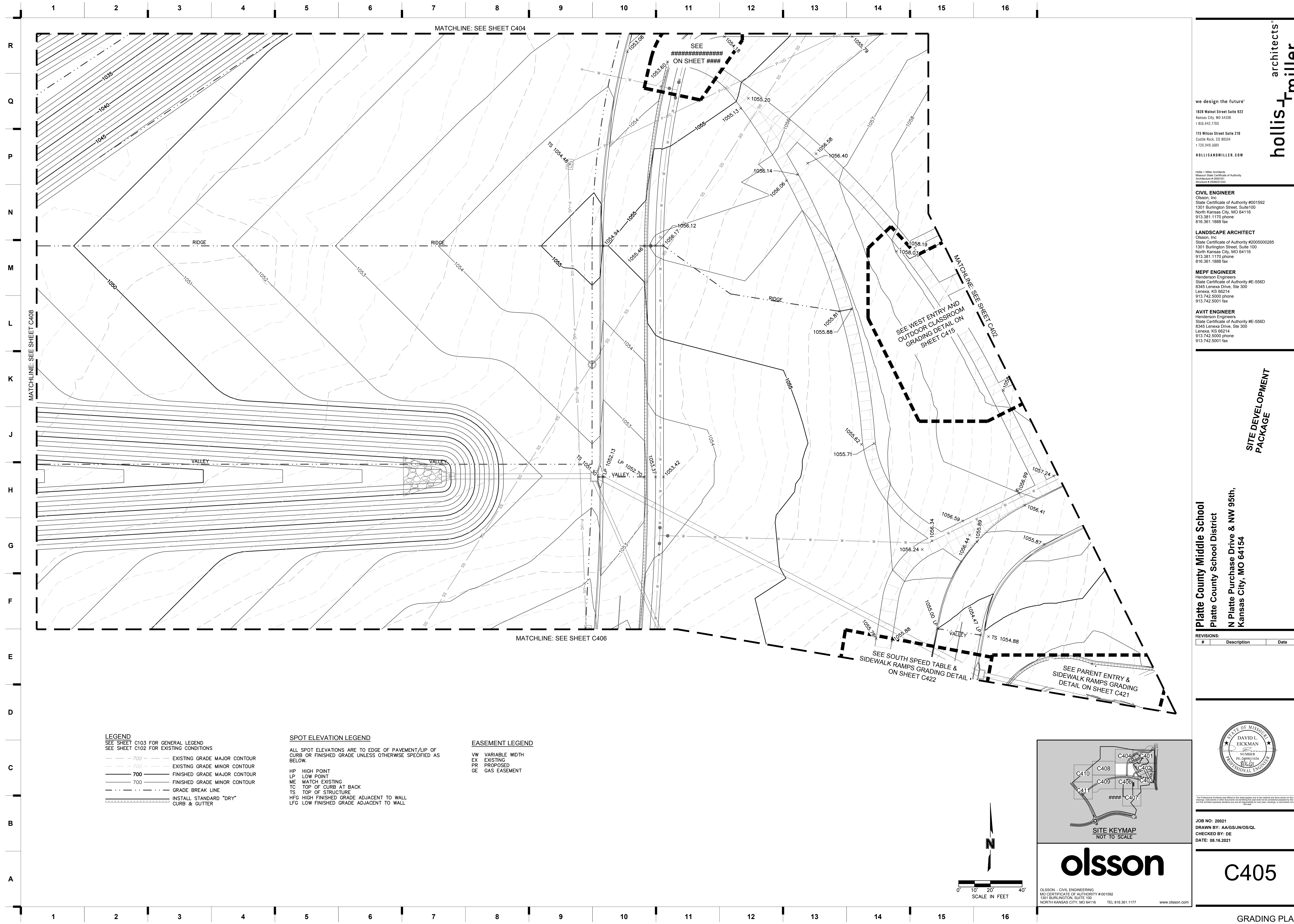
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C404

GRADING PLAN



- LEGEND**
 SEE SHEET C103 FOR GENERAL LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS
- 700 --- EXISTING GRADE MAJOR CONTOUR
 - 700 --- EXISTING GRADE MINOR CONTOUR
 - 700 --- FINISHED GRADE MAJOR CONTOUR
 - 700 --- FINISHED GRADE MINOR CONTOUR
 - --- GRADE BREAK LINE
 - --- INSTALL STANDARD "DRY" CURB & GUTTER
- SPOT ELEVATION LEGEND**
 ALL SPOT ELEVATIONS ARE TO EDGE OF PAVEMENT/LIP OF CURB OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED AS BELOW.
- HP HIGH POINT
 - LP LOW POINT
 - ME MATCH EXISTING TO TOP OF CURB AT BACK
 - TS TOP OF STRUCTURE
 - HFG HIGH FINISHED GRADE ADJACENT TO WALL
 - LFG LOW FINISHED GRADE ADJACENT TO WALL
- EASEMENT LEGEND**
- VW VARIABLE WIDTH
 - EX EXISTING
 - PR PROPOSED
 - GE GAS EASEMENT

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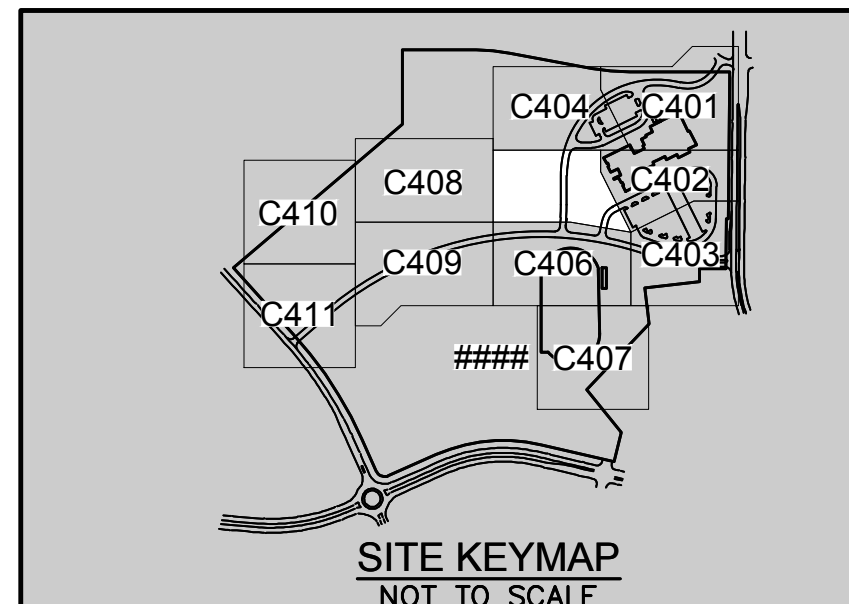
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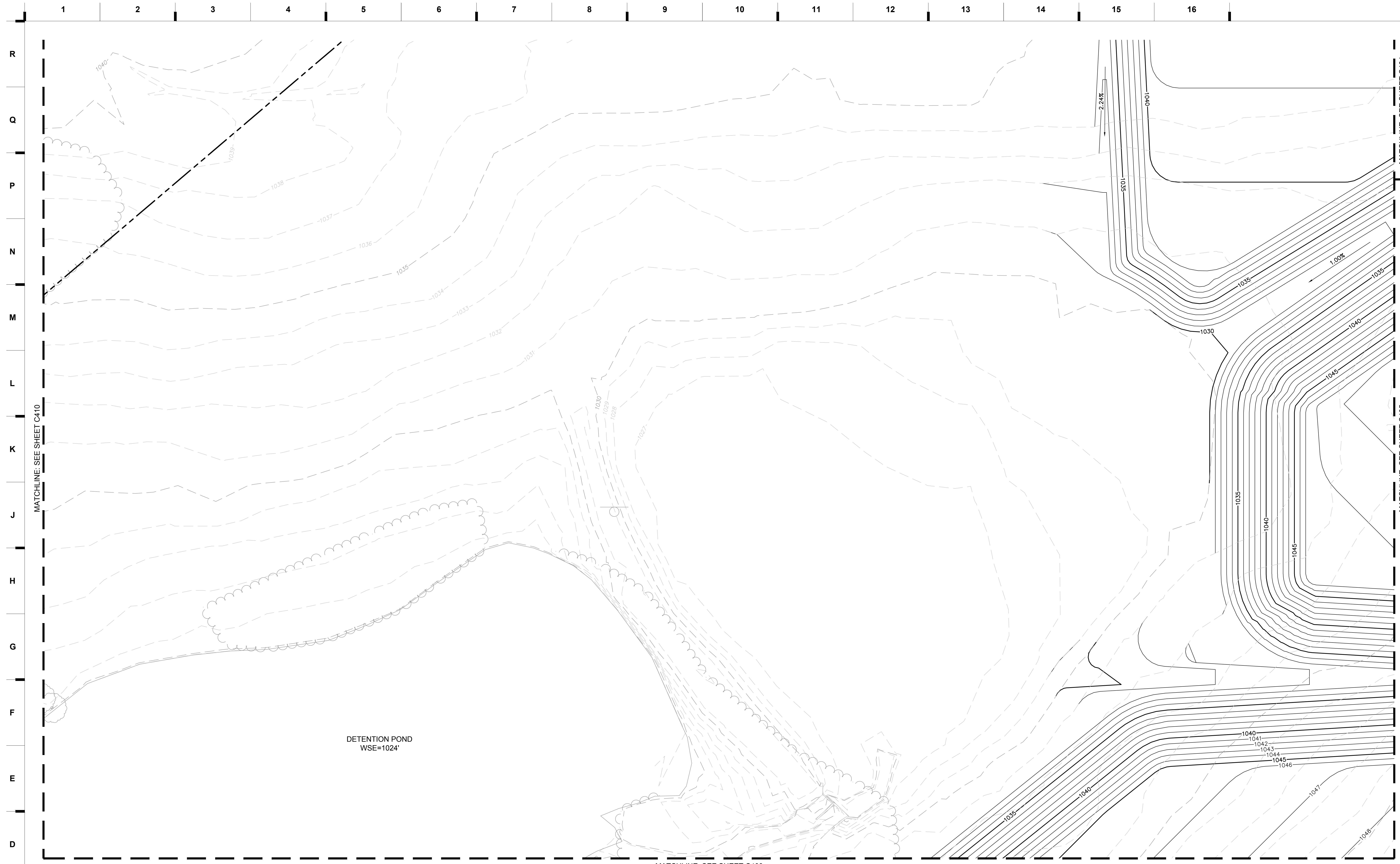
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LEGEND
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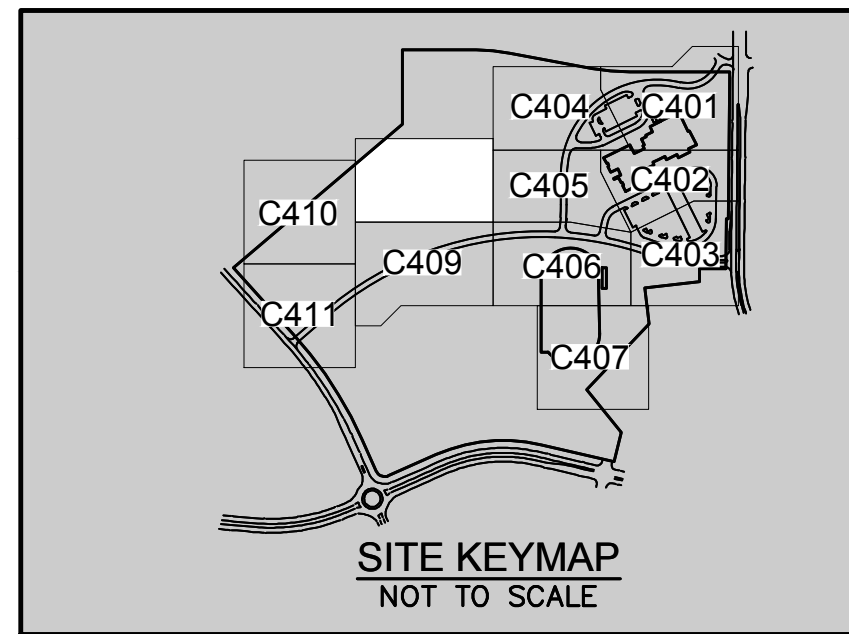
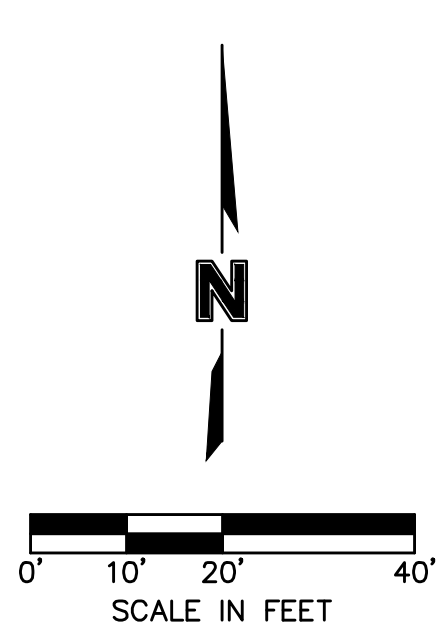
---	EXISTING GRADE MAJOR CONTOUR
- - -	EXISTING GRADE MINOR CONTOUR
—	FINISHED GRADE MAJOR CONTOUR
- - -	FINISHED GRADE MINOR CONTOUR
---	GRADE BREAK LINE
=====	INSTALL STANDARD "DRY" CURB & GUTTER

SPOT ELEVATION LEGEND
ALL SPOT ELEVATIONS ARE TO EDGE OF PAVEMENT/LIP OF CURB OR FINISHED GRADE UNLESS OTHERWISE SPECIFIED AS BELOW.

HP	HIGH POINT
LP	LOW POINT
ME	MATCH EXISTING
TC	TOP OF CURB AT BACK
TS	TOP OF STRUCTURE
HFG	HIGH FINISHED GRADE ADJACENT TO WALL
LFG	LOW FINISHED GRADE ADJACENT TO WALL

EASEMENT LEGEND

VW	VARIABLE WIDTH
EX	EXISTING
PR	PROPOSED
GE	GAS EASEMENT



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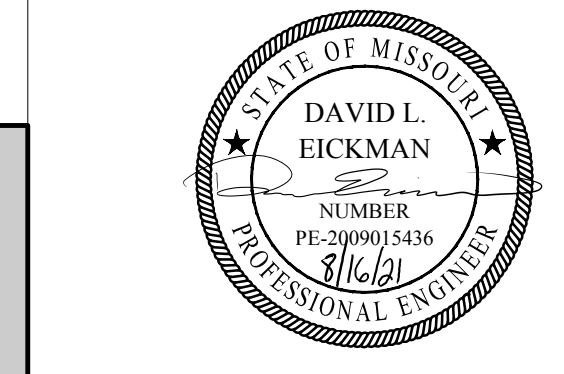
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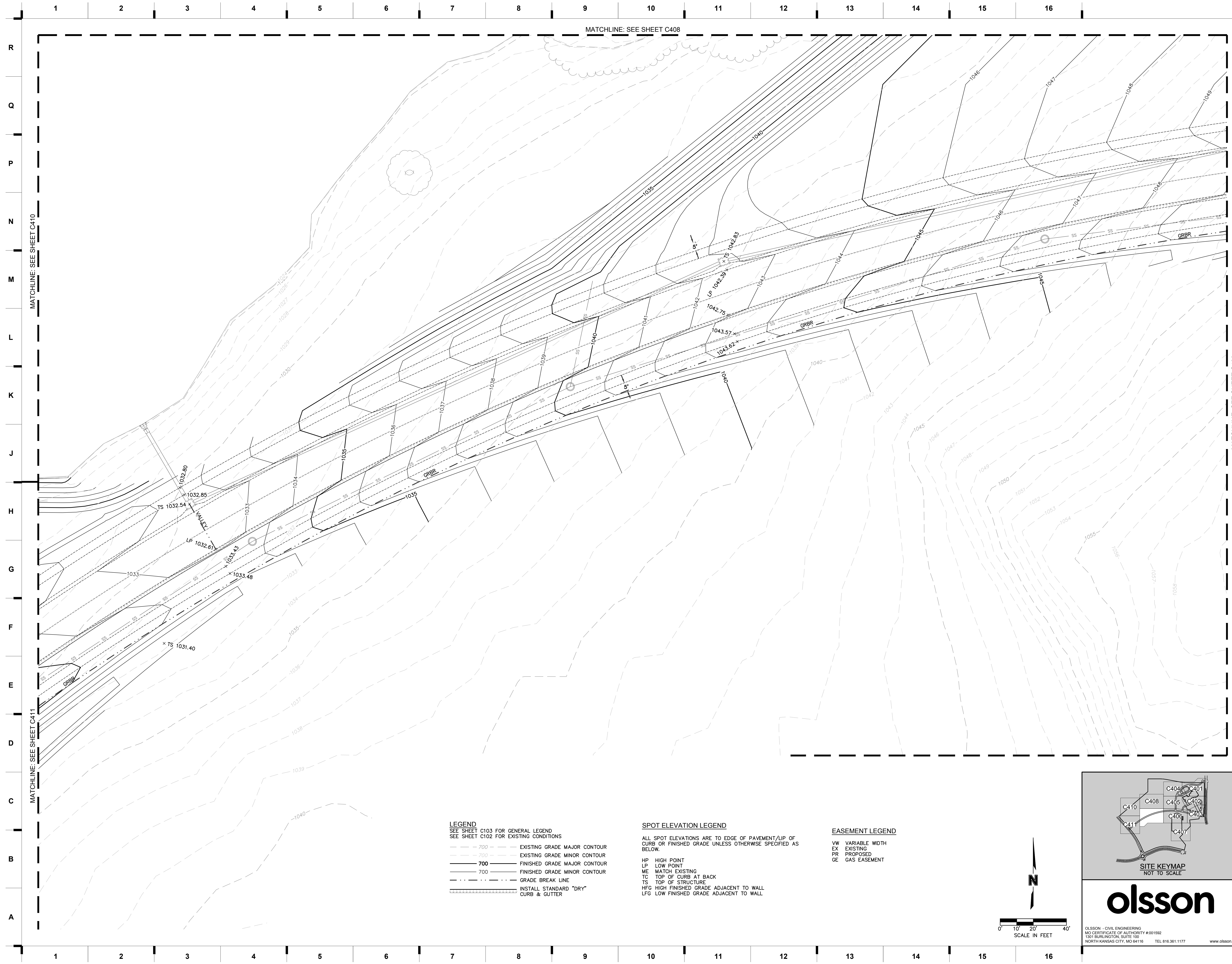
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MATCHLINE: SEE SHEET C408

MATCHLINE: SEE SHEET C410

MATCHLINE: SEE SHEET C411

MATCHLINE: SEE SHEET C406

LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS

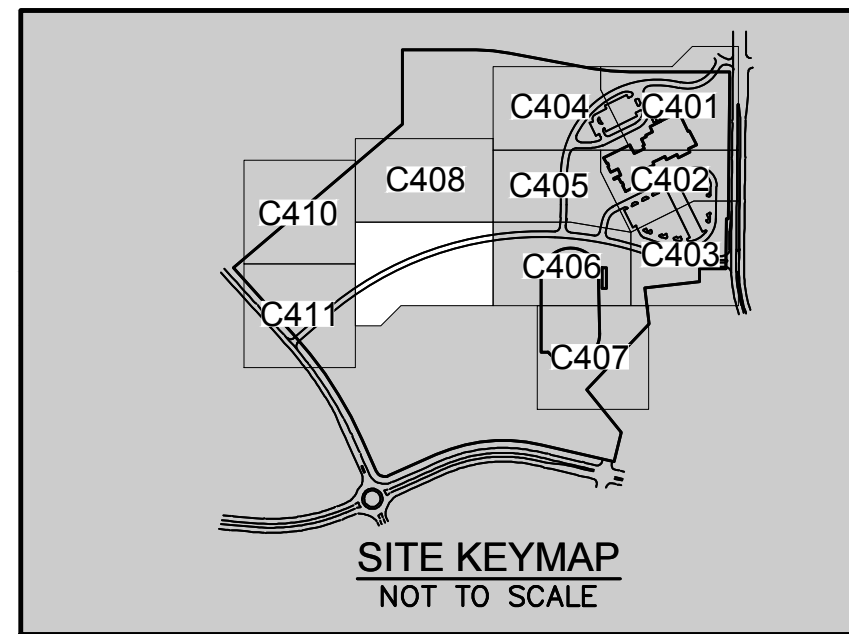
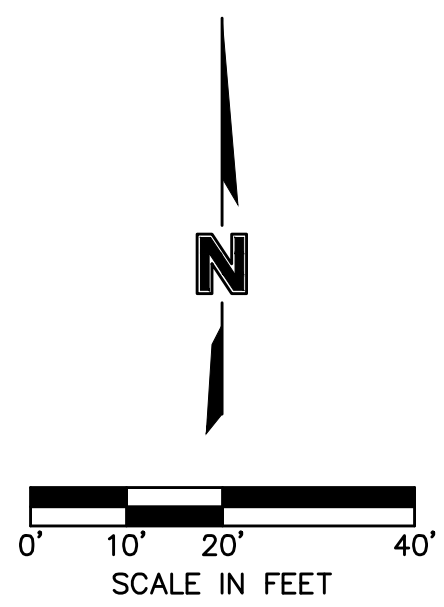
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- - - 700 - - - EXISTING GRADE MINOR CONTOUR
- 700 — FINISHED GRADE MAJOR CONTOUR
- 700 — FINISHED GRADE MINOR CONTOUR
- · - · - GRADE BREAK LINE
- INSTALL STANDARD "DRY" CURB & GUTTER

SPOT ELEVATION LEGEND
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- TC TOP OF CURB AT BACK
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- HFG HIGH FINISHED GRADE ADJACENT TO WALL
- LFG LOW FINISHED GRADE ADJACENT TO WALL

EASEMENT LEGEND

- VW VARIABLE WIDTH
- EX EXISTING
- PR PROPOSED
- GE GAS EASEMENT



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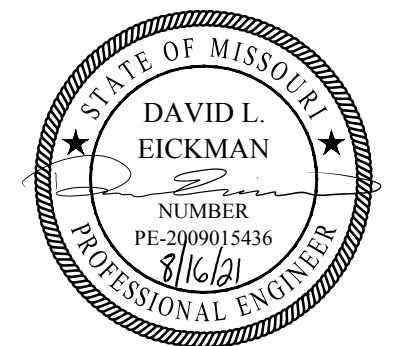
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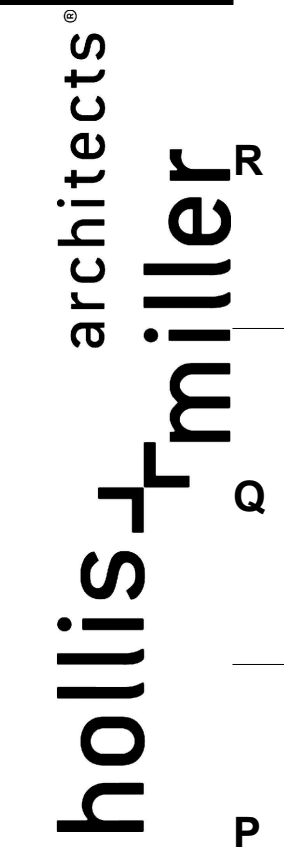
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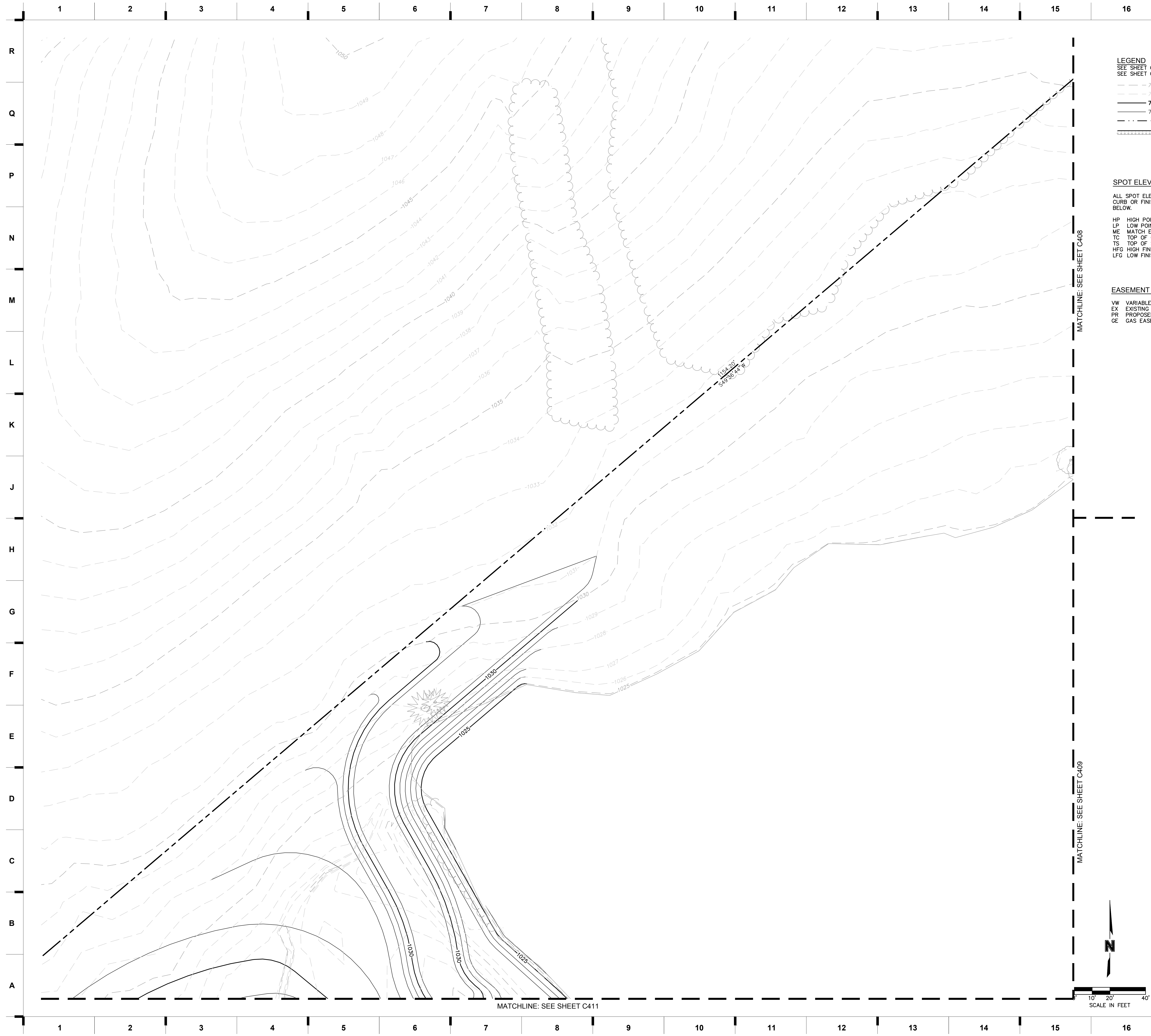


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C409



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LEGEND
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 SEE SHEET C102 FOR EXISTING CONDITIONS

- - - - - 700 - - - - - EXISTING GRADE MAJOR CONTOUR
- - - - - 700 - - - - - EXISTING GRADE MINOR CONTOUR
- 700 — FINISHED GRADE MAJOR CONTOUR
- 700 — FINISHED GRADE MINOR CONTOUR
- · - · - GRADE BREAK LINE
- ===== INSTALL STANDARD "DRY" CURB & GUTTER

SPOT ELEVATION LEGEND
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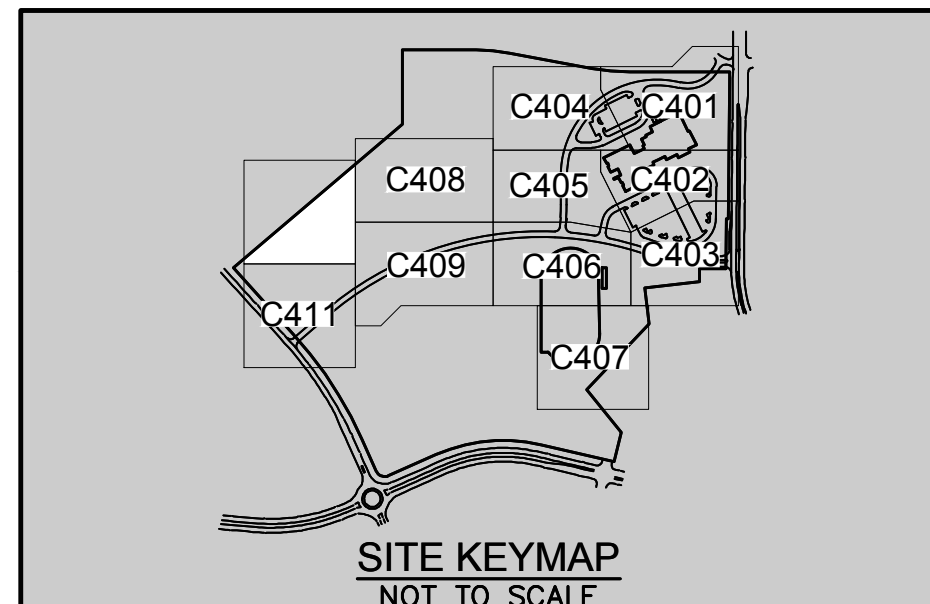
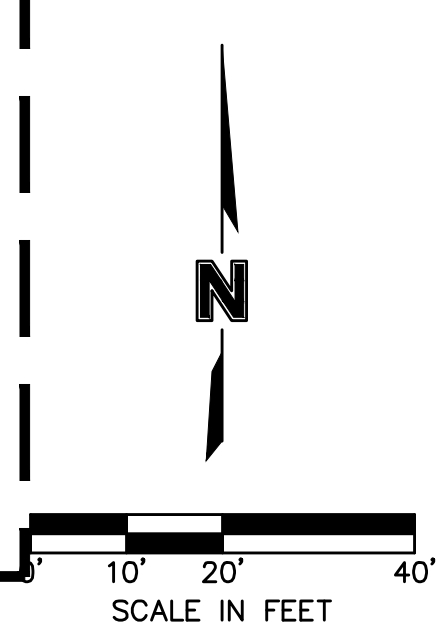
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- TC TOP OF CURB AT BACK
- TS TOP OF STRUCTURE
- HFG HIGH FINISHED GRADE ADJACENT TO WALL
- LFG LOW FINISHED GRADE ADJACENT TO WALL

EASEMENT LEGEND

- VW VARIABLE WIDTH
- EX EXISTING
- PR PROPOSED
- GE GAS EASEMENT

MATCHLINE: SEE SHEET C408

MATCHLINE: SEE SHEET C409



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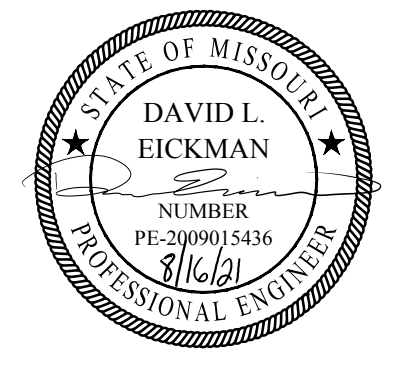
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LEGEND
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 SEE SHEET C102 FOR EXISTING CONDITIONS

- 700 --- EXISTING GRADE MAJOR CONTOUR
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- - - - - GRADE BREAK LINE
- ===== INSTALL STANDARD "DRY" CURB & GUTTER

SPOT ELEVATION LEGEND

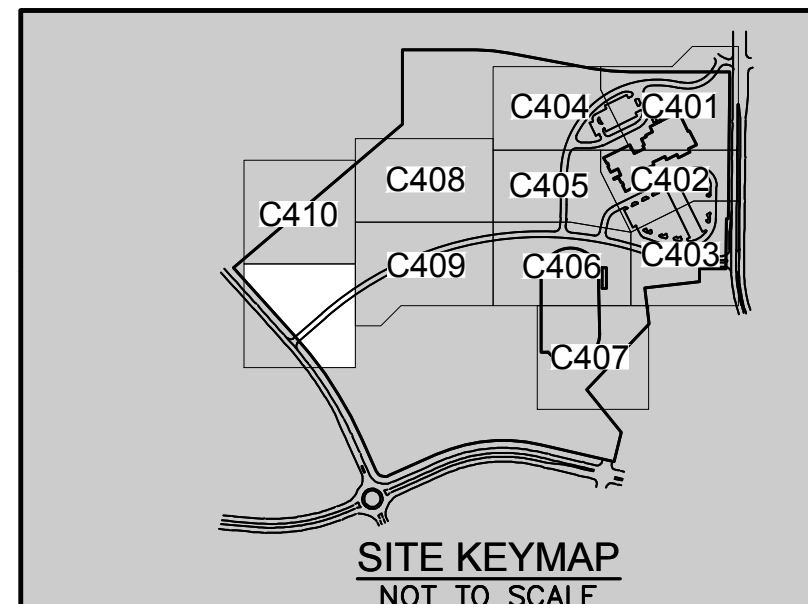
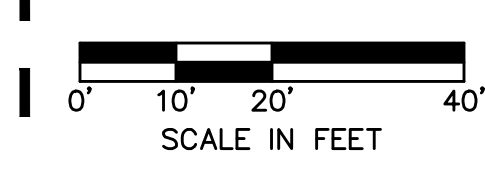
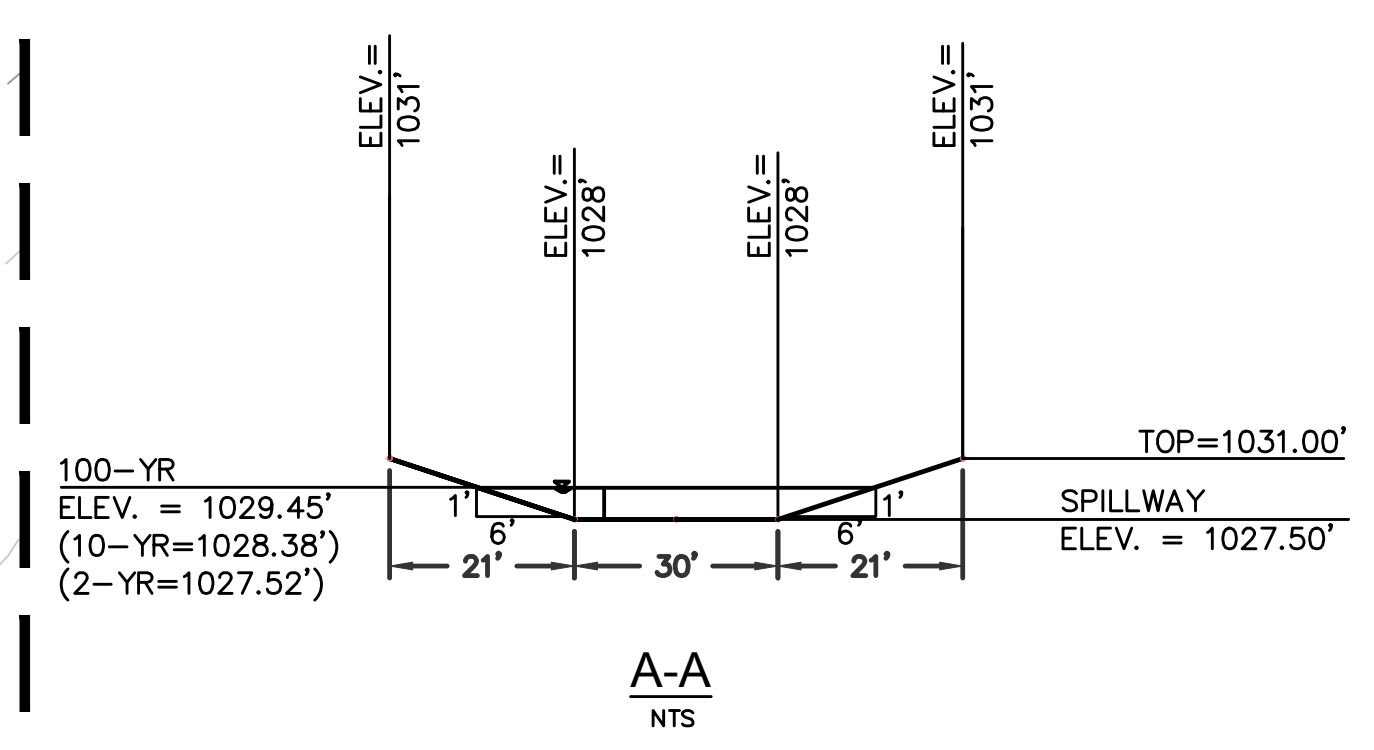
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EASEMENT LEGEND

- VW VARIABLE WIDTH
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MATCHLINE: SEE SHEET C409



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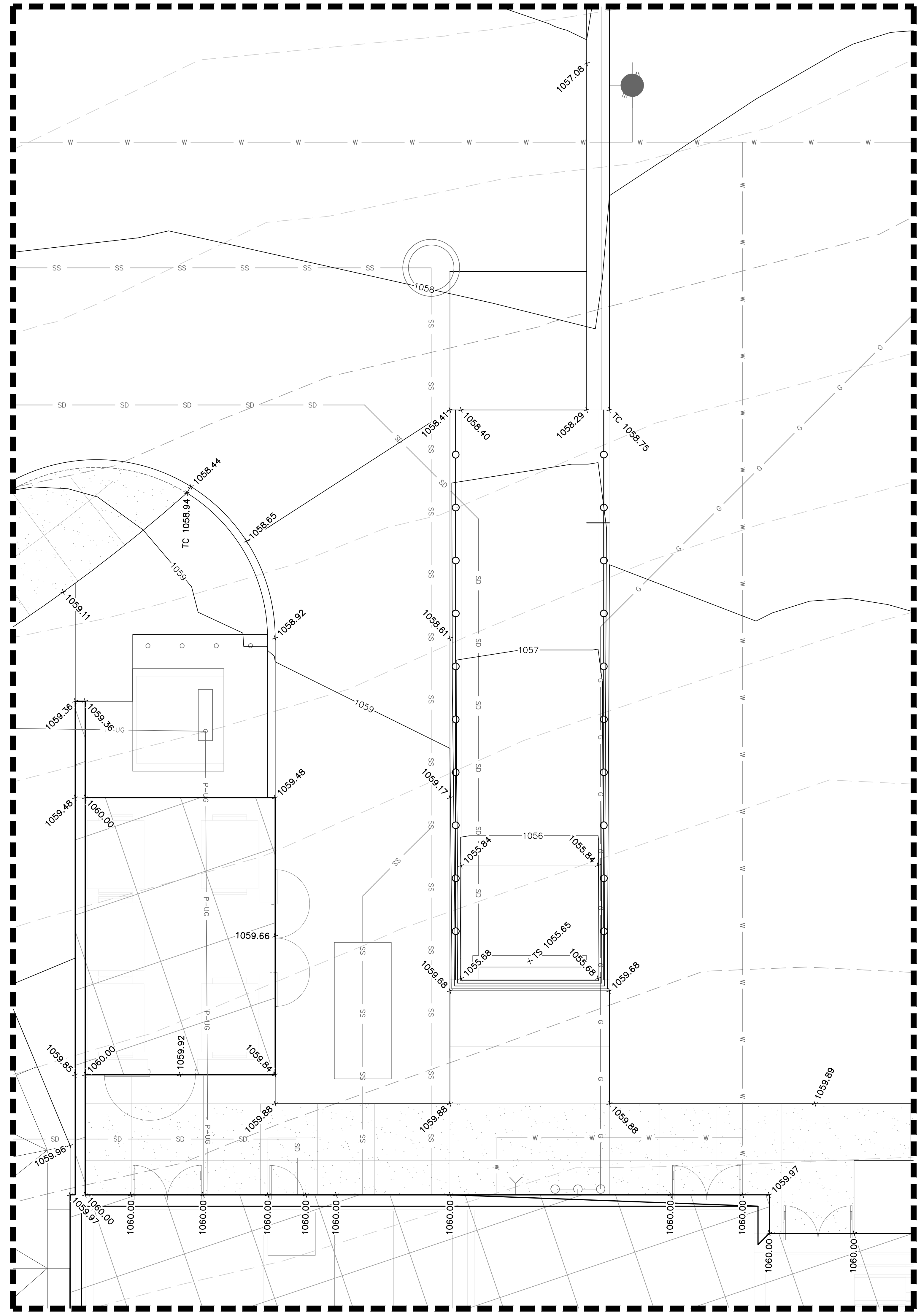
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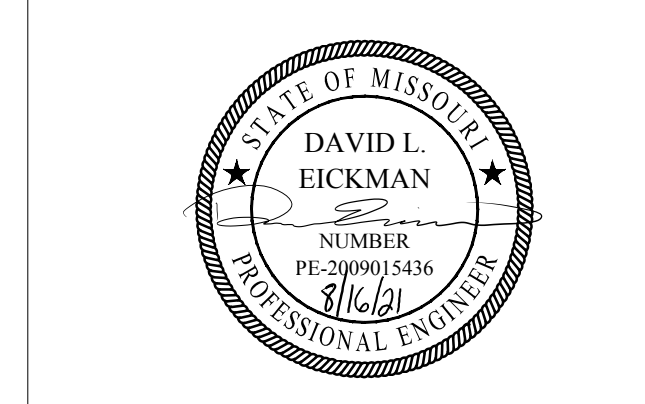
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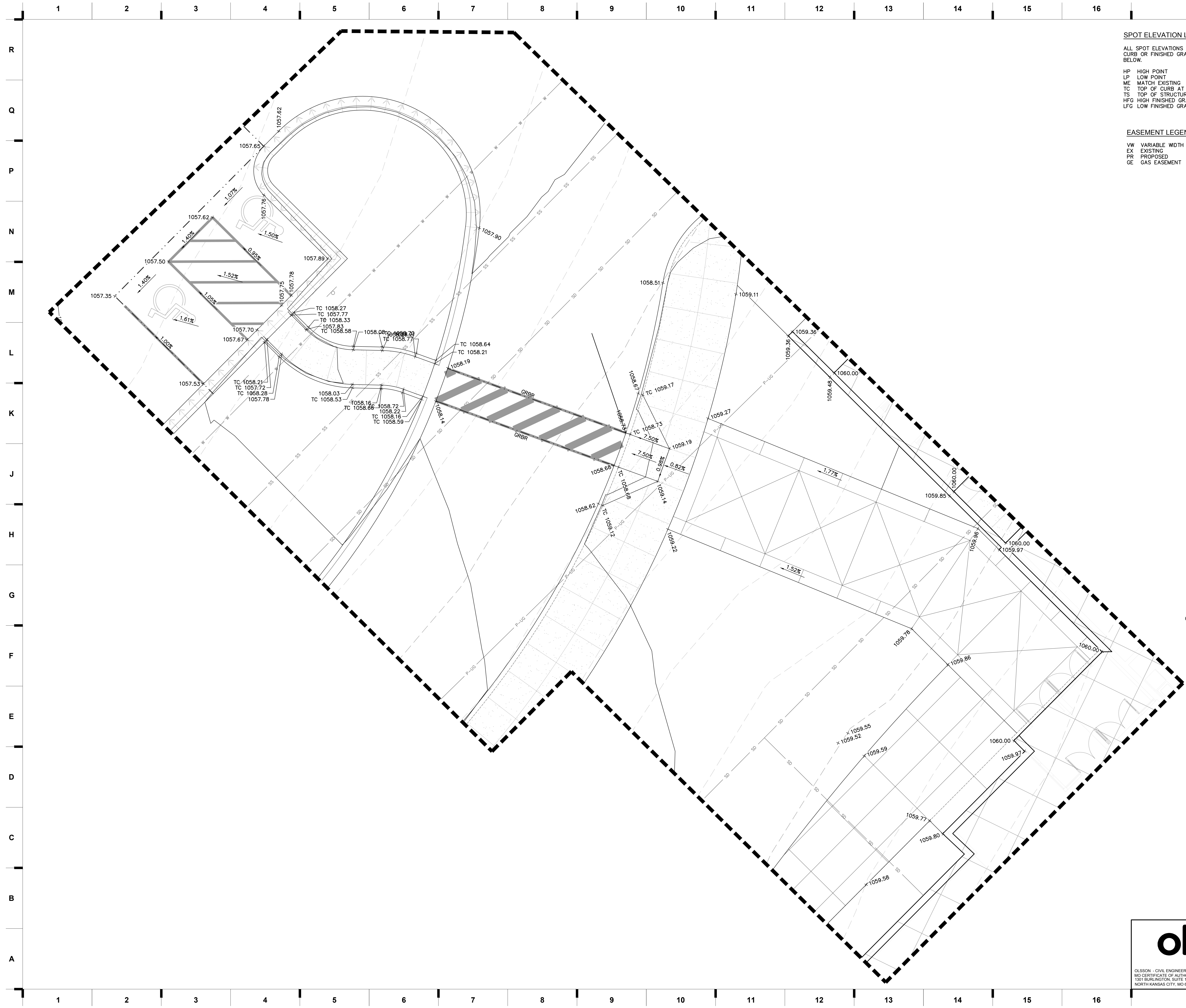
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EASEMENT LEGEND

VW VARIABLE WIDTH
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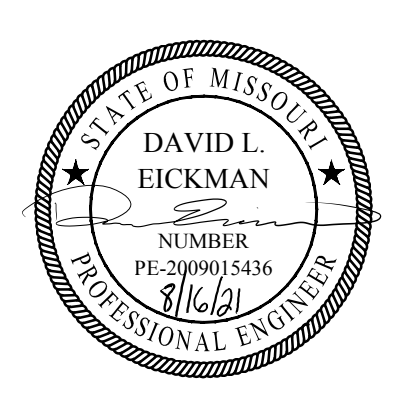
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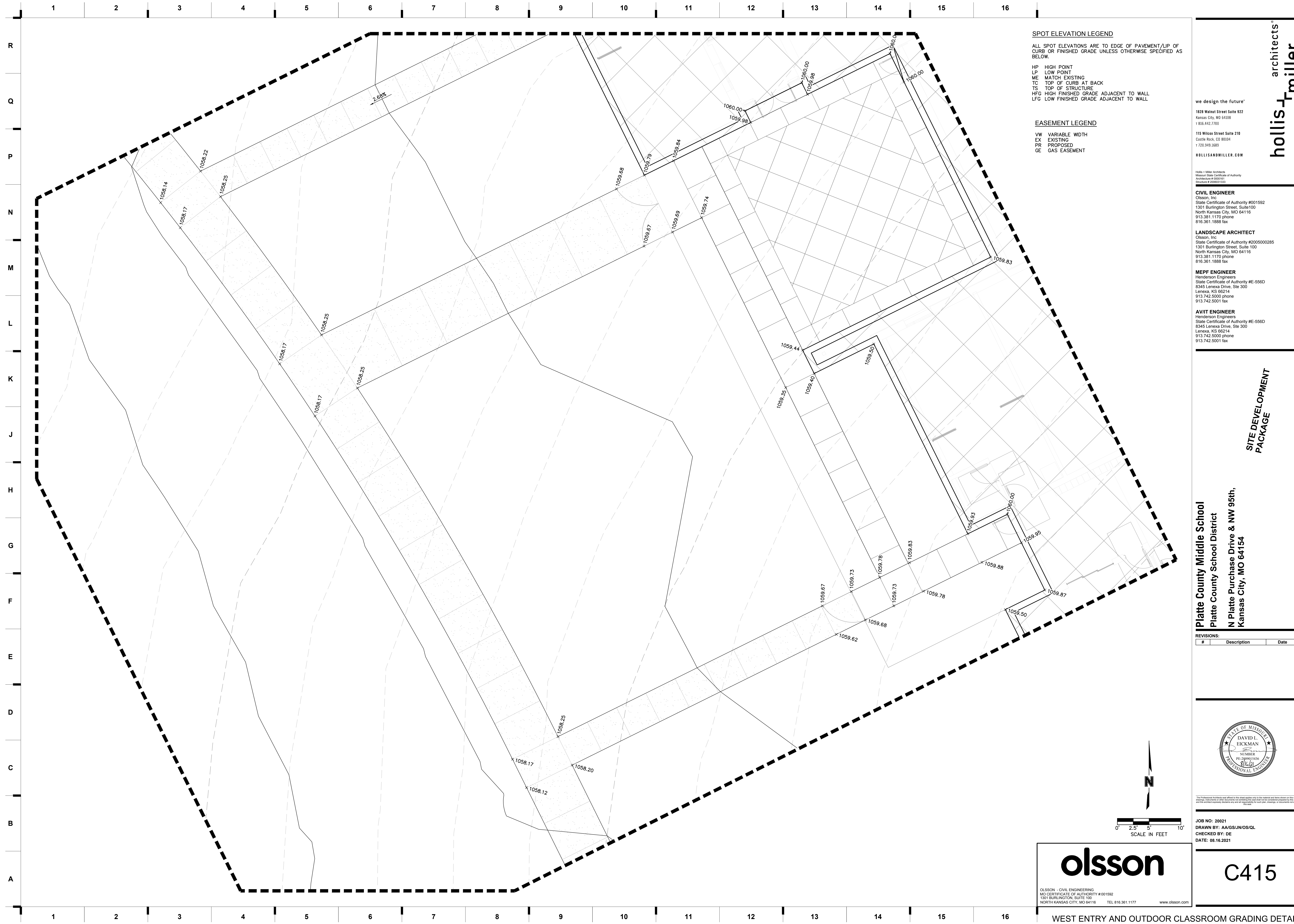
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EASEMENT LEGEND

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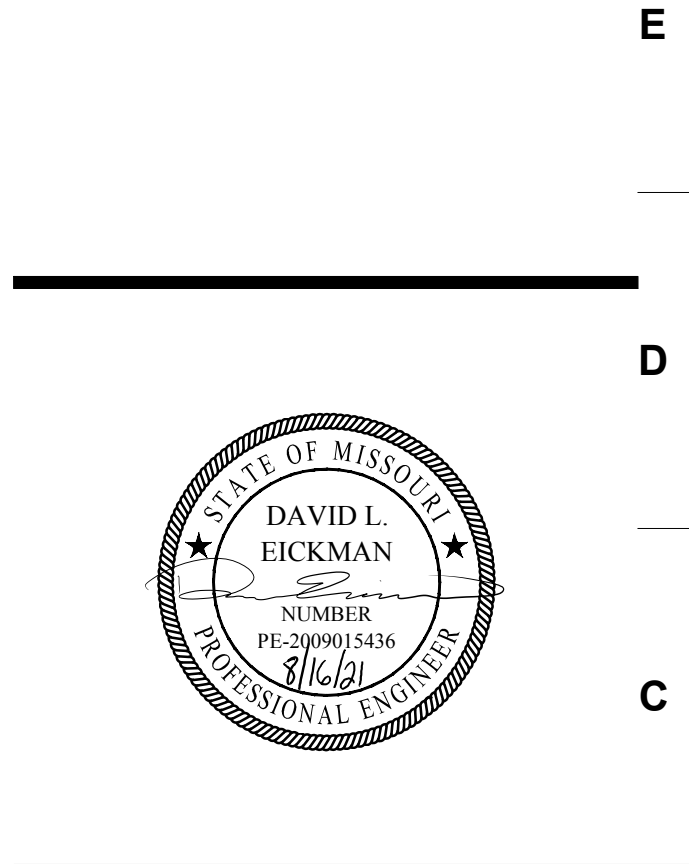
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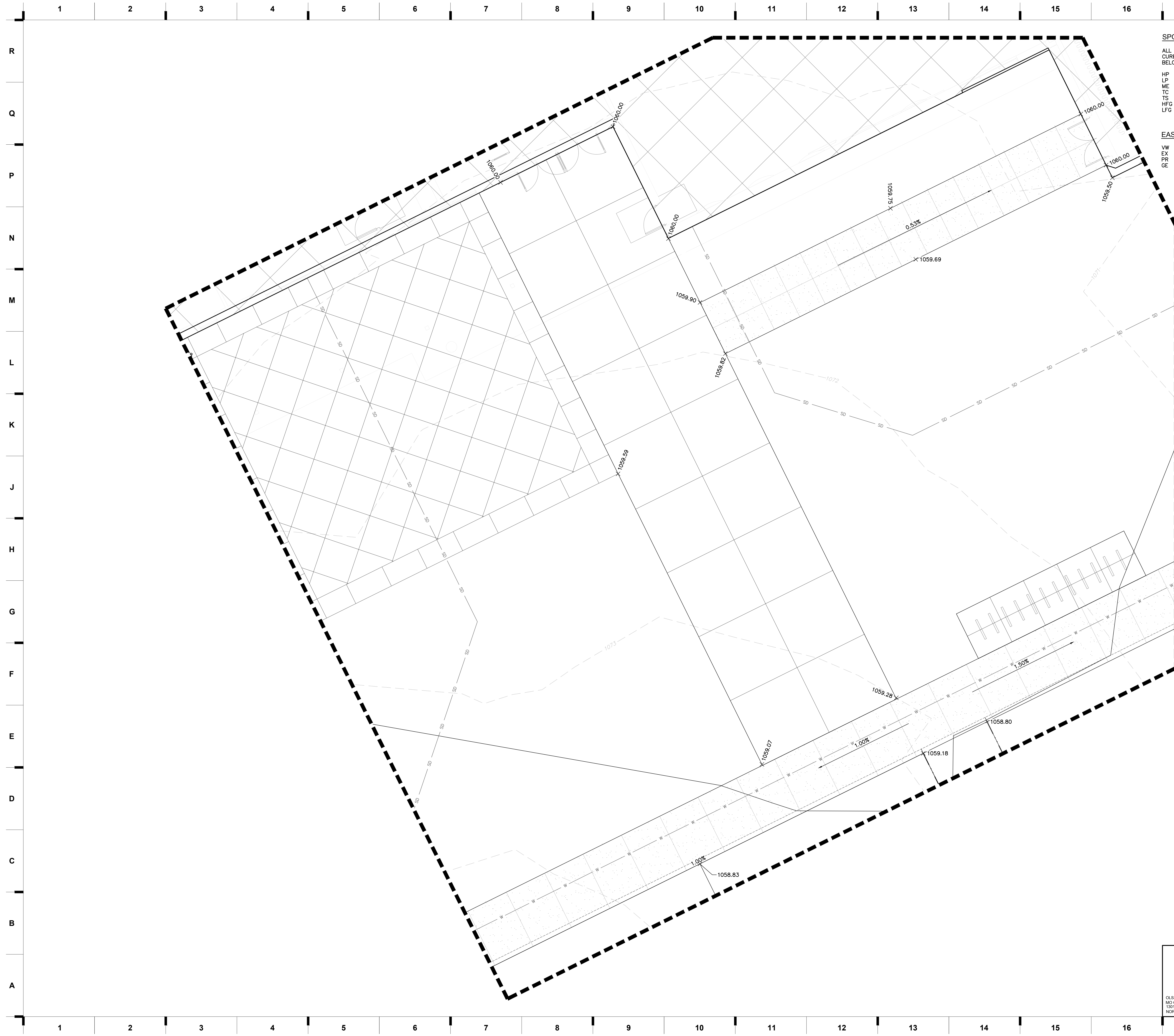
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SPOT ELEVATION LEGEND
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 HP HIGH POINT
 LP LOW POINT
 ME MATCH EXISTING
 TC TOP OF CURB AT BACK
 TS TOP OF STRUCTURE
 HFG HIGH FINISHED GRADE ADJACENT TO WALL
 LFG LOW FINISHED GRADE ADJACENT TO WALL

EASEMENT LEGEND
 VW VARIABLE WIDTH
 EX EXISTING
 PR PROPOSED
 GE GAS EASEMENT

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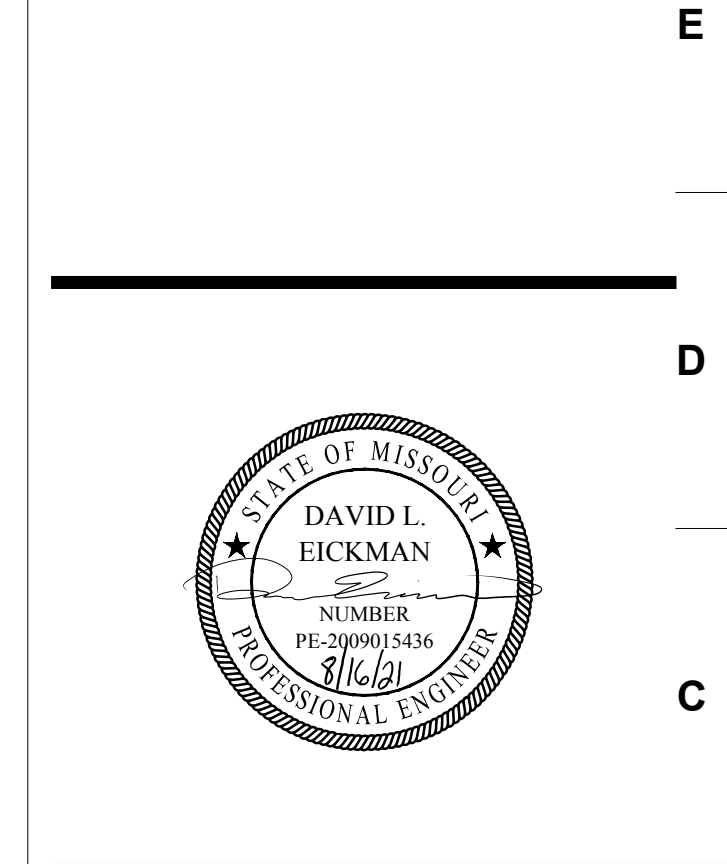
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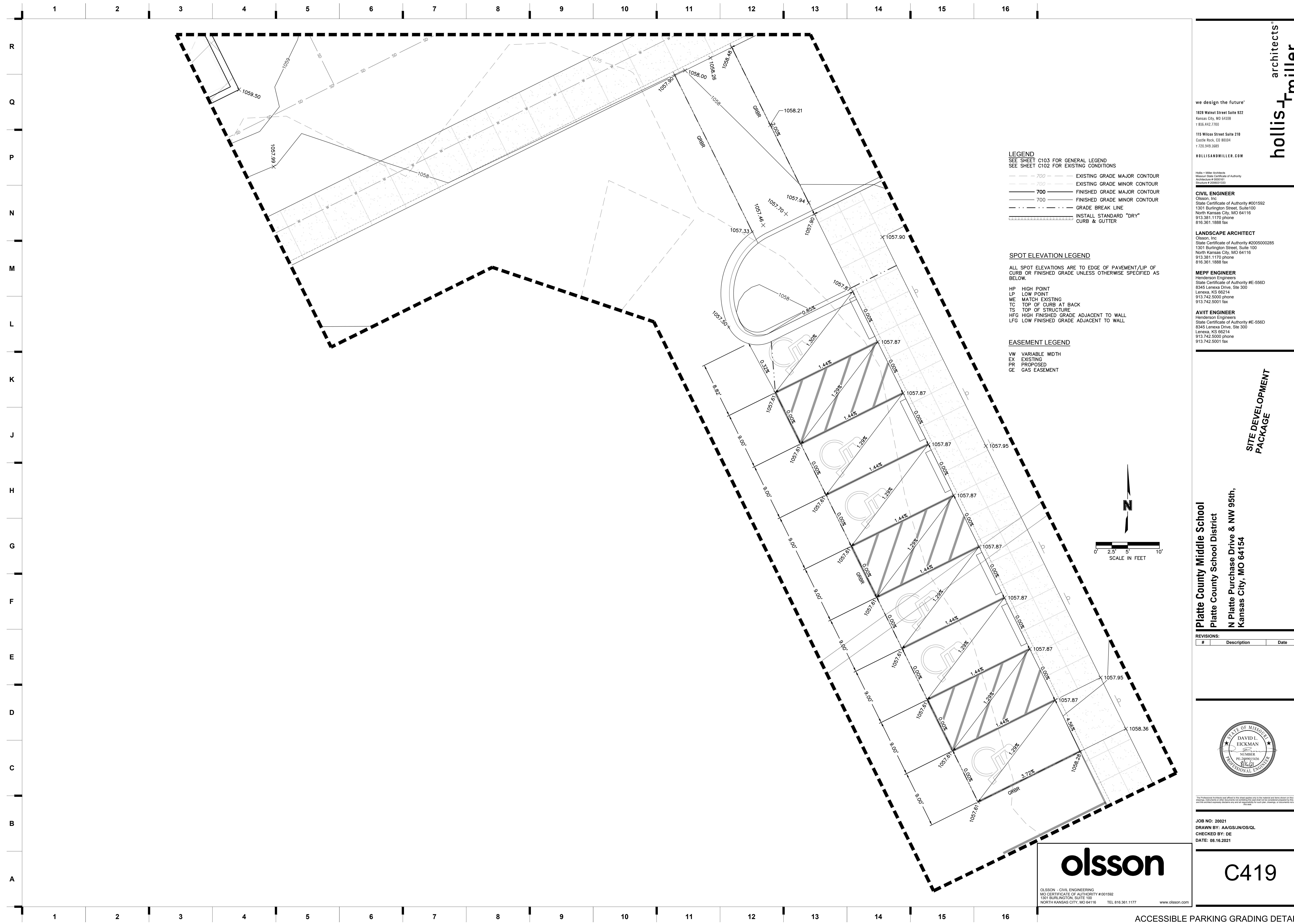


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LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS

- - - 700 - - - EXISTING GRADE MAJOR CONTOUR
- - - 700 - - - EXISTING GRADE MINOR CONTOUR
- 700 — FINISHED GRADE MAJOR CONTOUR
- 700 — FINISHED GRADE MINOR CONTOUR
- - - - - GRADE BREAK LINE
- ===== INSTALL STANDARD "DRY" CURB & GUTTER

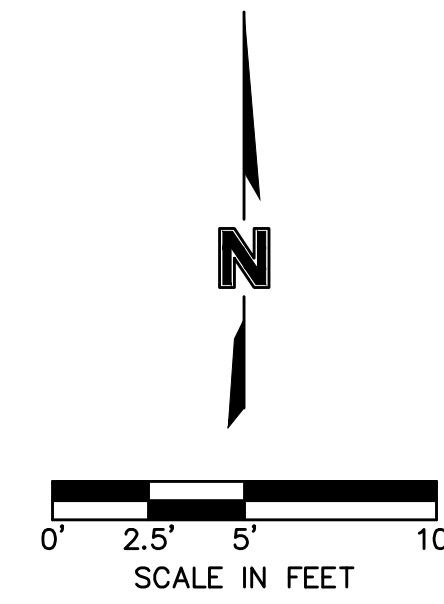
SPOT ELEVATION LEGEND

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- HP HIGH POINT
- LP LOW POINT
- ME MATCH EXISTING
- TC TOP OF CURB AT BACK
- TS TOP OF STRUCTURE
- HFG HIGH FINISHED GRADE ADJACENT TO WALL
- LFG LOW FINISHED GRADE ADJACENT TO WALL

EASEMENT LEGEND

- VW VARIABLE WIDTH
- EX EXISTING
- PR PROPOSED
- GE GAS EASEMENT



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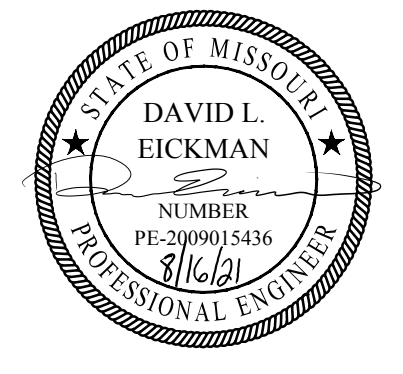
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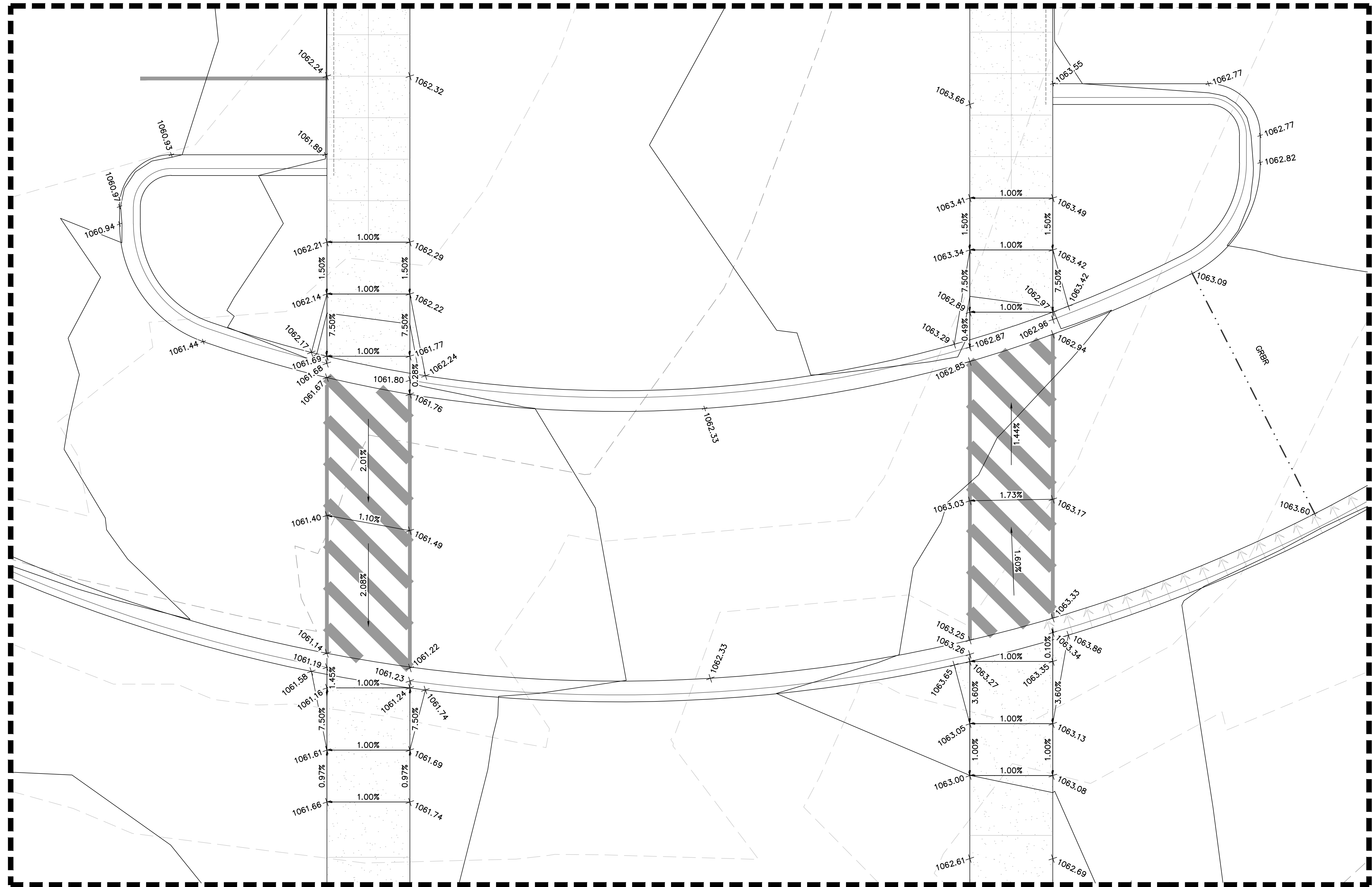
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- LFG LOW FINISHED GRADE ADJACENT TO WALL

EASEMENT LEGEND

- VW VARIABLE WIDTH
- EX EXISTING
- PR PROPOSED
- GE GAS EASEMENT

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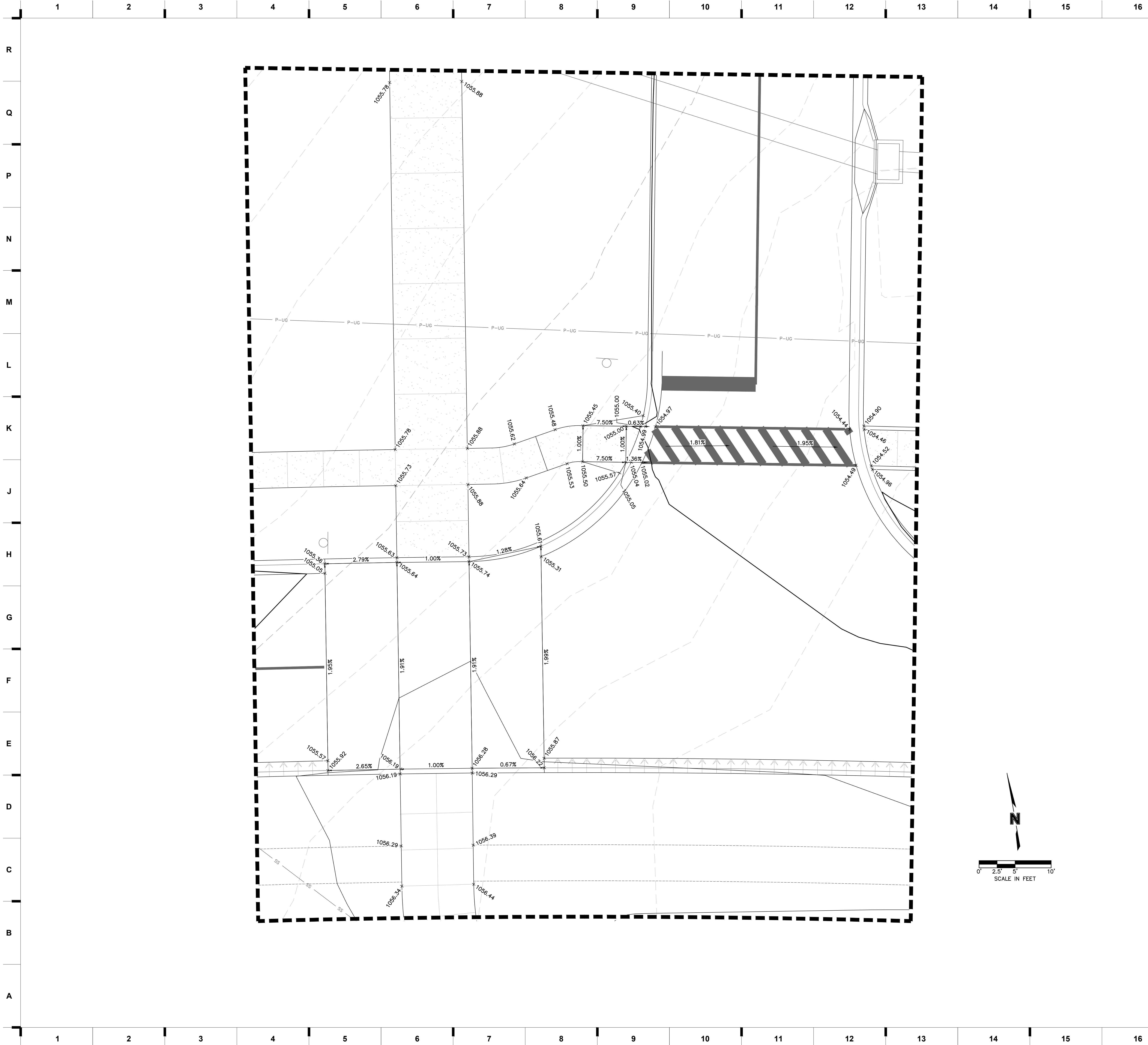
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EASEMENT LEGEND

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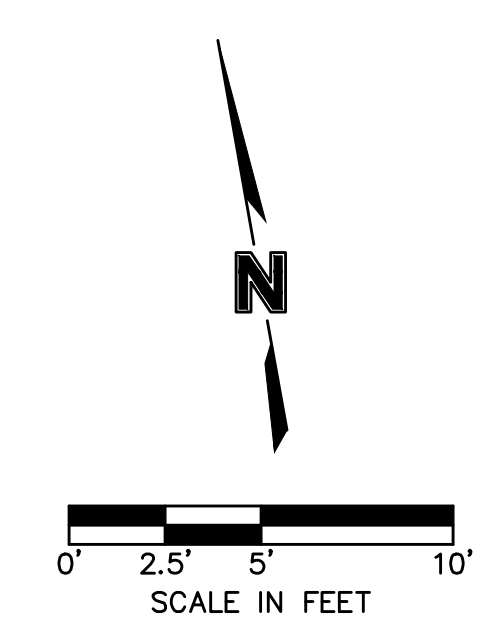
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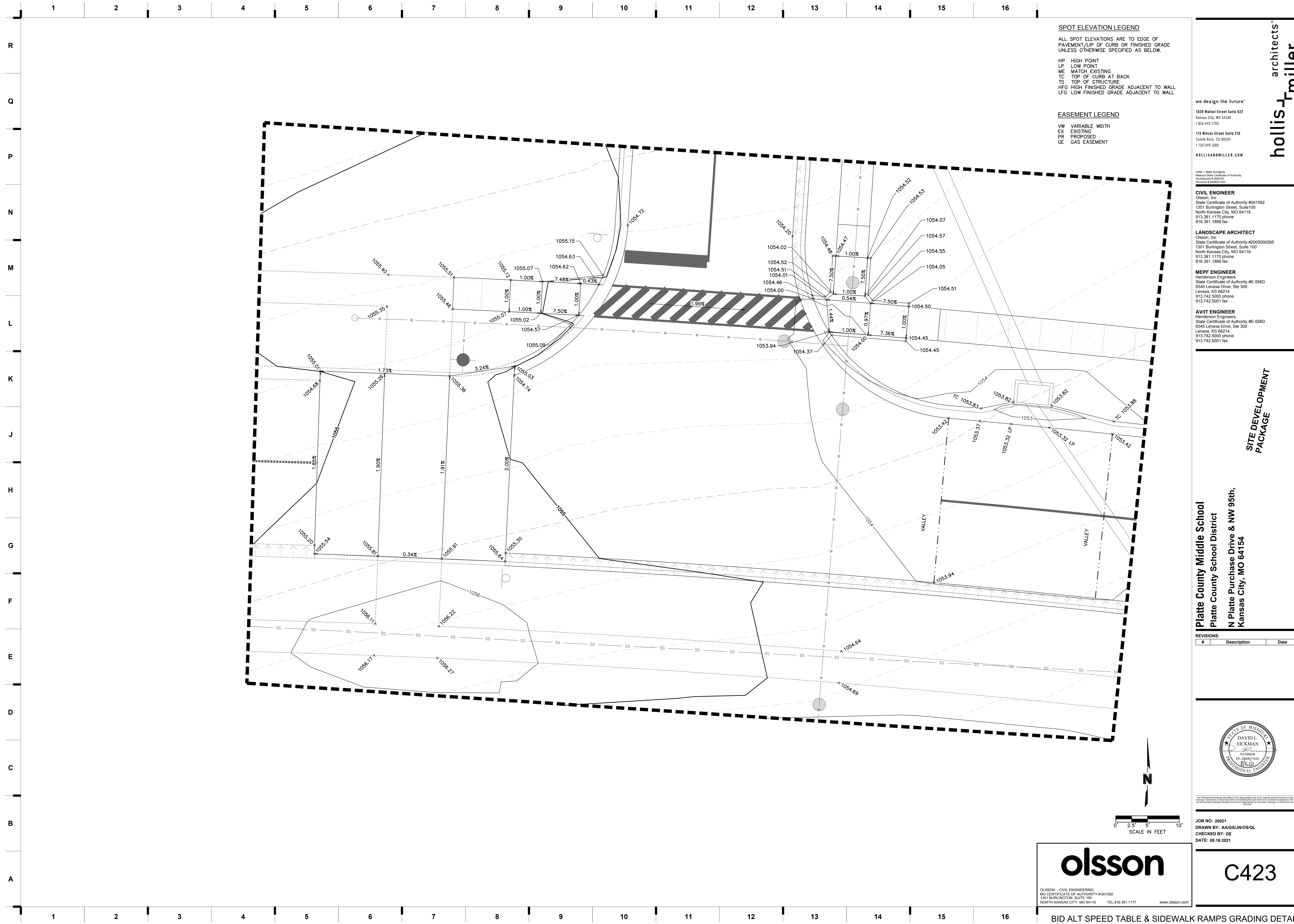
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 NUMBER PE-29989-04-01
 PROFESSIONAL ENGINEER

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SPOT ELEVATION LEGEND

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EASEMENT LEGEND

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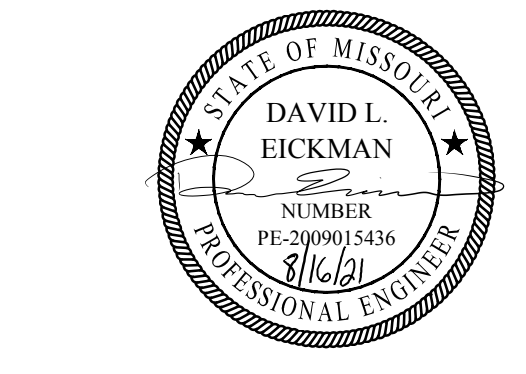
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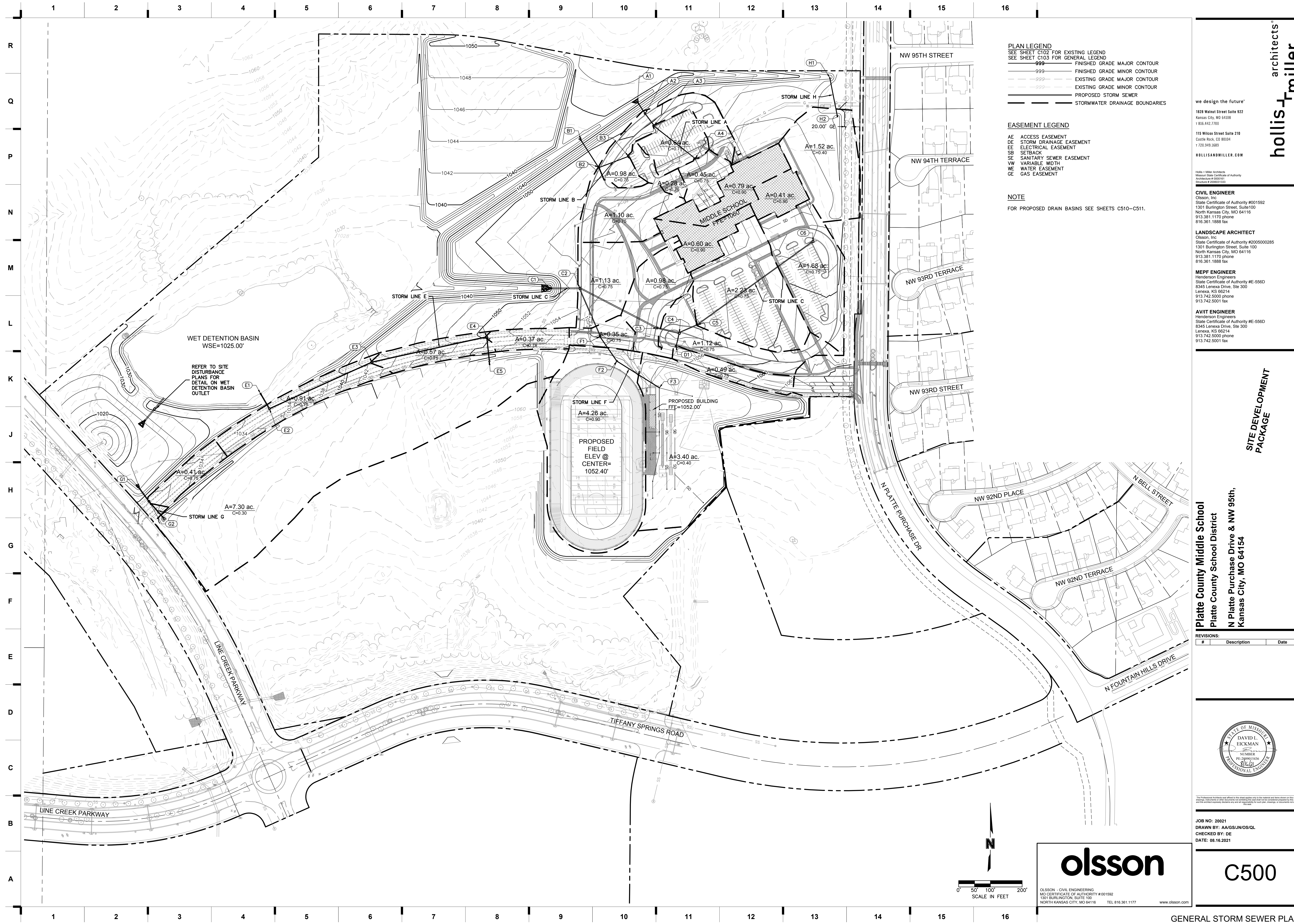
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PLAN LEGEND
 SEE SHEET C102 FOR EXISTING LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND

- 999 FINISHED GRADE MAJOR CONTOUR
- 999 FINISHED GRADE MINOR CONTOUR
- 999 EXISTING GRADE MAJOR CONTOUR
- 999 EXISTING GRADE MINOR CONTOUR
- PROPOSED STORM SEWER
- STORMWATER DRAINAGE BOUNDARIES

EASEMENT LEGEND

- AE ACCESS EASEMENT
- DE STORM DRAINAGE EASEMENT
- EE ELECTRICAL EASEMENT
- SB SETBACK
- SE SANITARY SEWER EASEMENT
- VW VARIABLE WIDTH
- WE WATER EASEMENT
- GE GAS EASEMENT

NOTE
 FOR PROPOSED DRAIN BASINS SEE SHEETS C510-C511.

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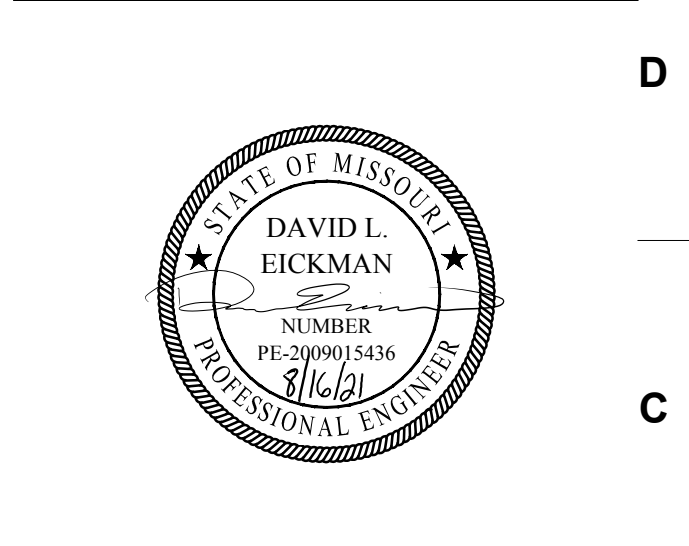
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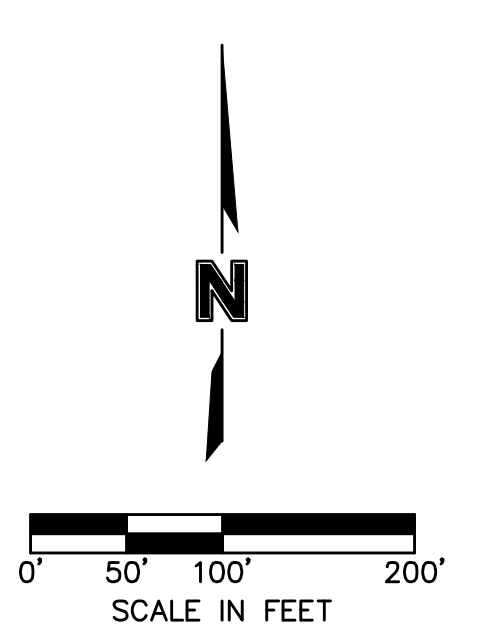
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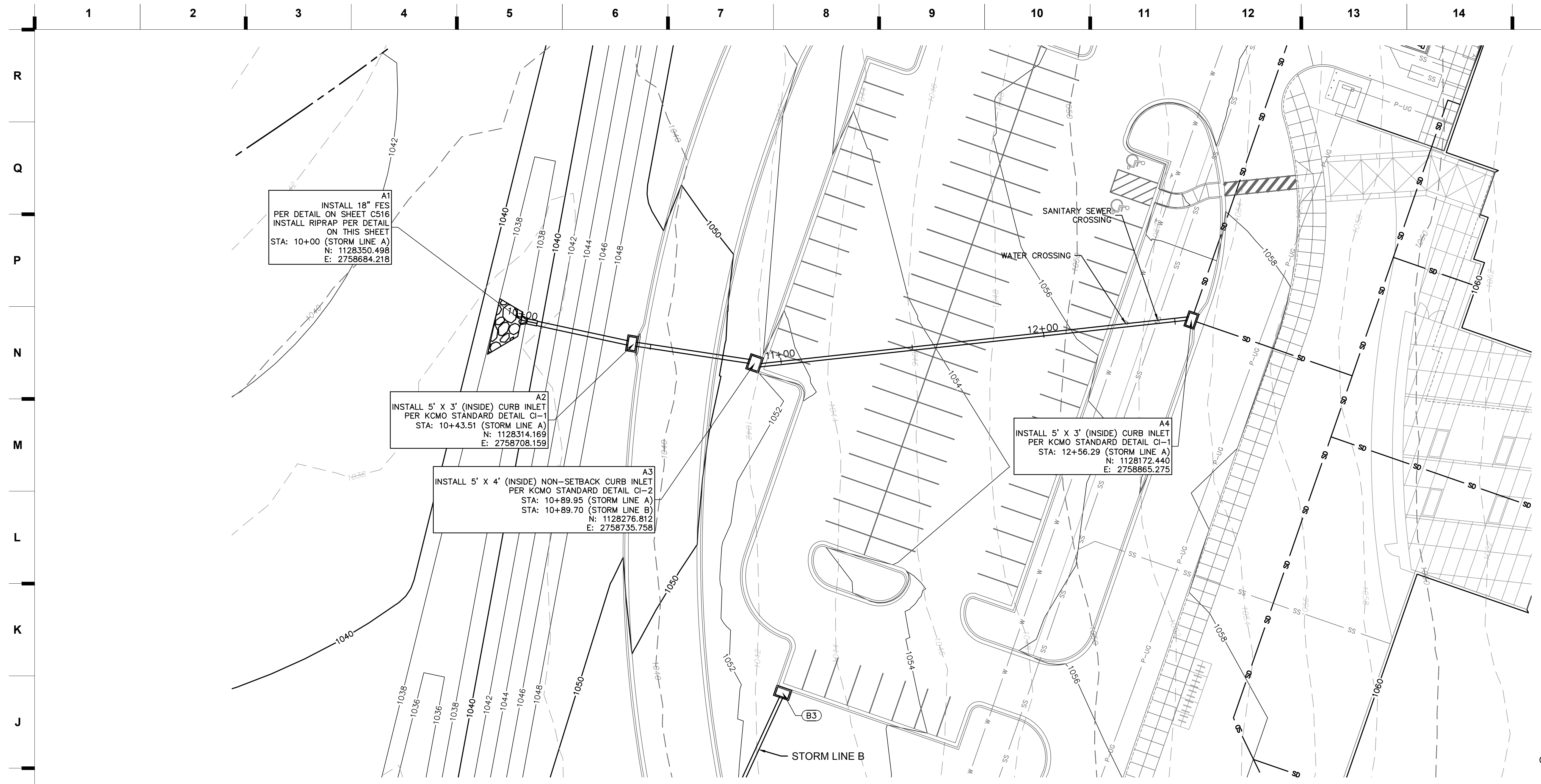
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C500

GENERAL STORM SEWER PLAN

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- PLAN LEGEND**
 SEE SHEET C102 FOR EXISTING LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
- 999 — FINISHED GRADE MAJOR CONTOUR
 - 999 — FINISHED GRADE MINOR CONTOUR
 - - - 999 - - - EXISTING GRADE MAJOR CONTOUR
 - - - 999 - - - EXISTING GRADE MINOR CONTOUR
 - SS — PROPOSED STORM SEWER (12" AND ABOVE)
 - SD — PROPOSED STORM SEWER (BELOW 12")

- EASEMENT LEGEND**
- AE ACCESS EASEMENT
 - DE STORM DRAINAGE EASEMENT
 - EE ELECTRICAL EASEMENT
 - SB SETBACK
 - SE SANITARY SEWER EASEMENT
 - VW VARIABLE WIDTH
 - WE WATER EASEMENT
 - GE GAS EASEMENT

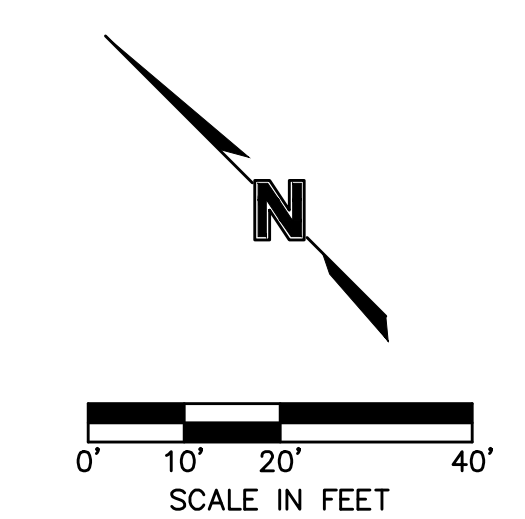
NOTE
 FOR PROPOSED DRAIN BASINS SEE SHEETS C510-C511.

A1
 INSTALL 18" FES
 PER DETAIL ON SHEET C516
 INSTALL RIPRAP PER DETAIL
 ON THIS SHEET
 (STORM LINE A)
 STA: 10+00
 N: 1128350.498
 E: 2758684.218

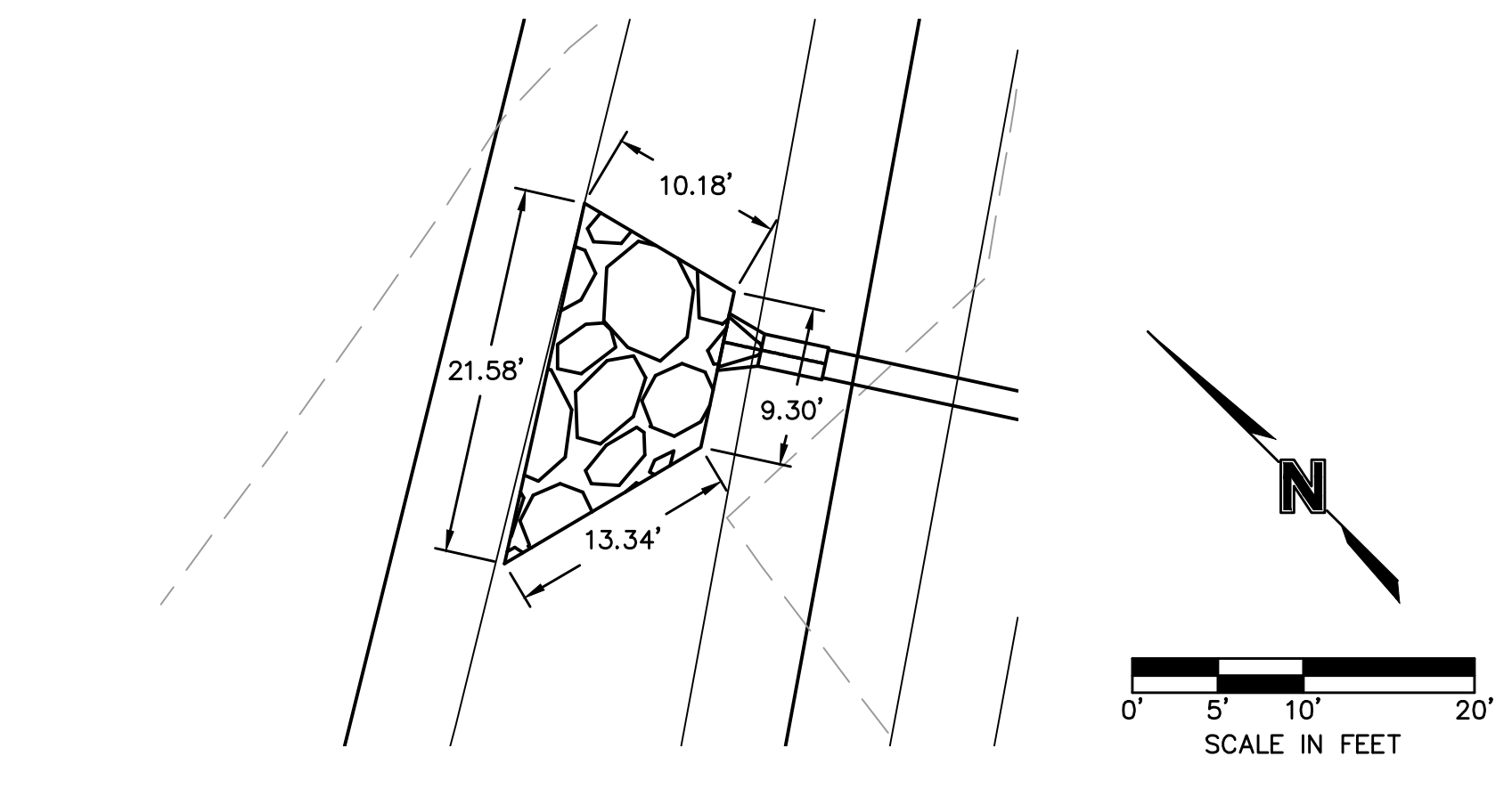
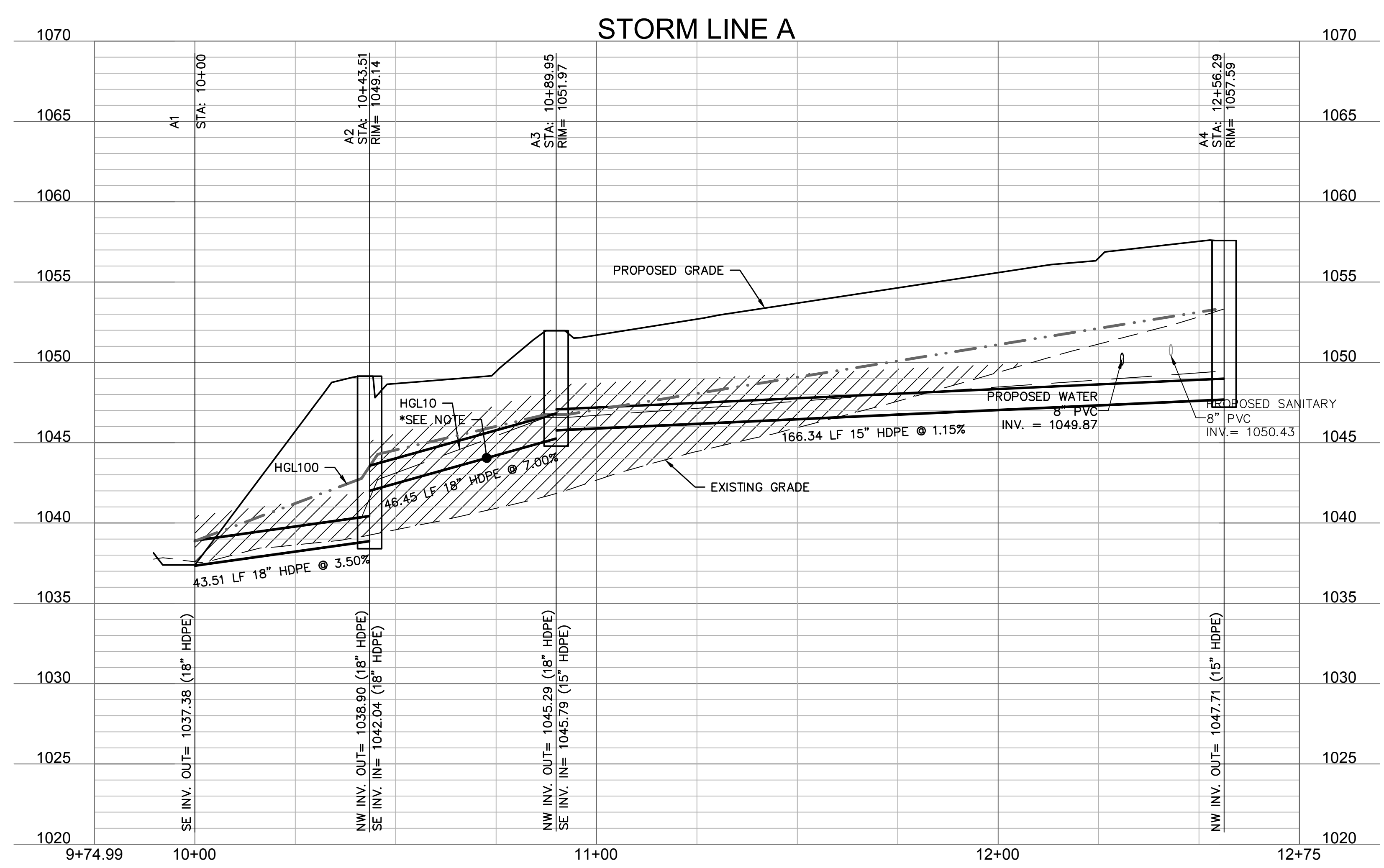
A2
 INSTALL 5' X 3' (INSIDE) CURB INLET
 PER KCMO STANDARD DETAIL CI-1
 STA: 10+43.51 (STORM LINE A)
 N: 1128314.169
 E: 2758708.159

A3
 INSTALL 5' X 4' (INSIDE) NON-SETBACK CURB INLET
 PER KCMO STANDARD DETAIL CI-2
 STA: 10+89.95 (STORM LINE A)
 STA: 10+89.70 (STORM LINE B)
 N: 1128276.812
 E: 2758735.758

A4
 INSTALL 5' X 3' (INSIDE) CURB INLET
 PER KCMO STANDARD DETAIL CI-1
 STA: 12+56.29 (STORM LINE A)
 N: 1128172.440
 E: 2758865.275



***NOTE**
 CONTRACTOR SHALL FILL AND COMPACT
 TO 95% STANDARD DENSITY TO A POINT
 18" MINIMUM ABOVE THE TOP OF PIPE
 PRIOR TO EXCAVATION FOR THE PIPE.

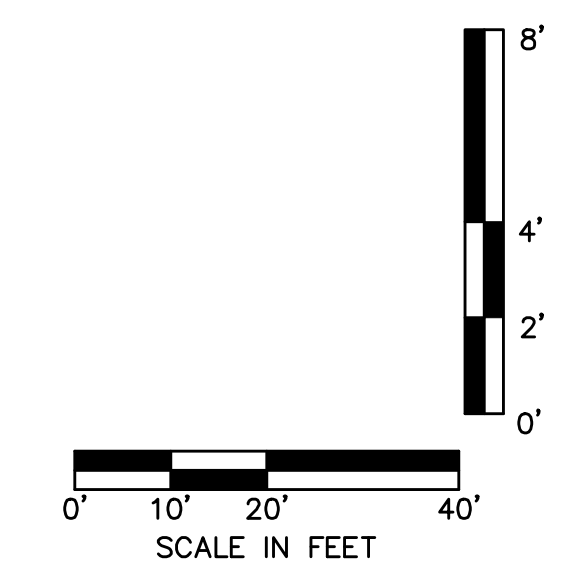


Riprap Calculations

End Section	Q ₁₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)	Area (SY)
A1	45.1	2	5	20	-	3.33	16.6

*Per Table 10.1 HEC 14-FHWA-Energy Dissipators Pg. 10-18

END SECTION A1 DETAIL



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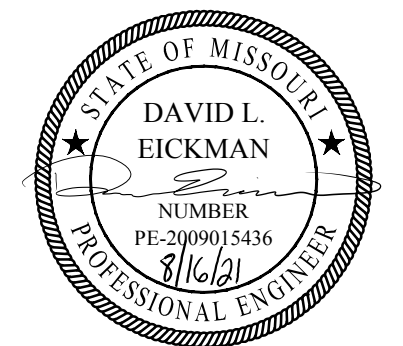
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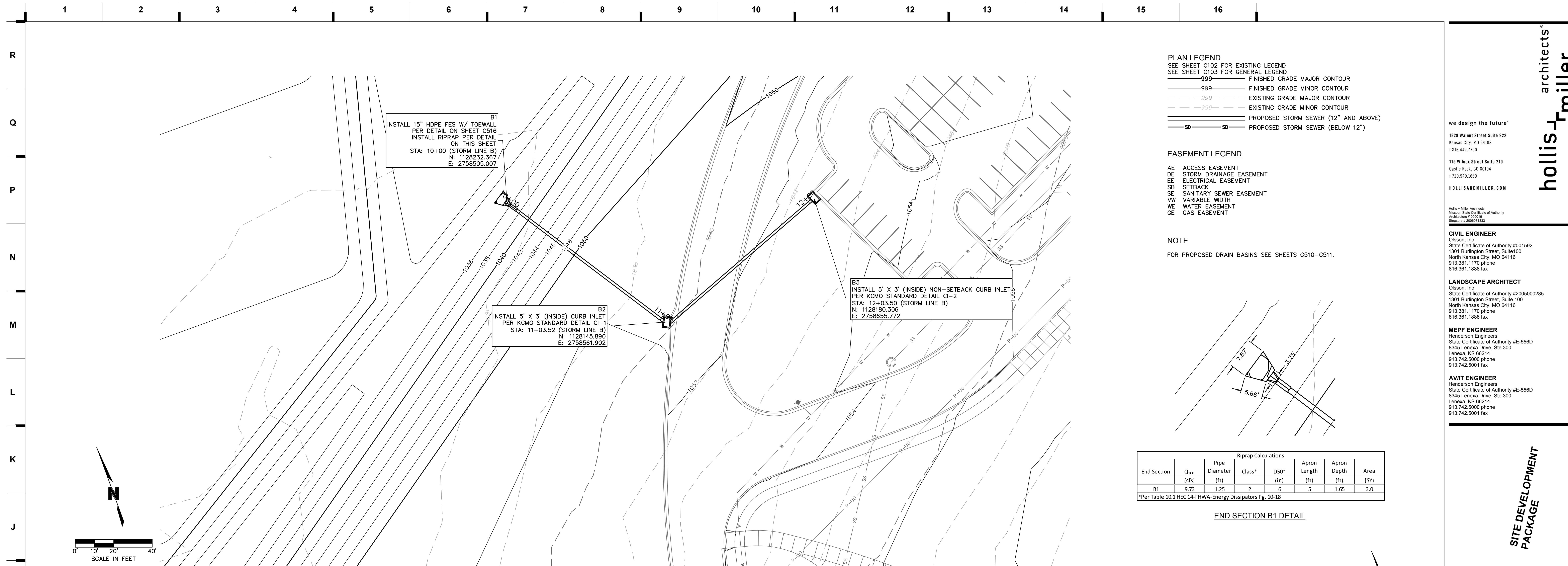
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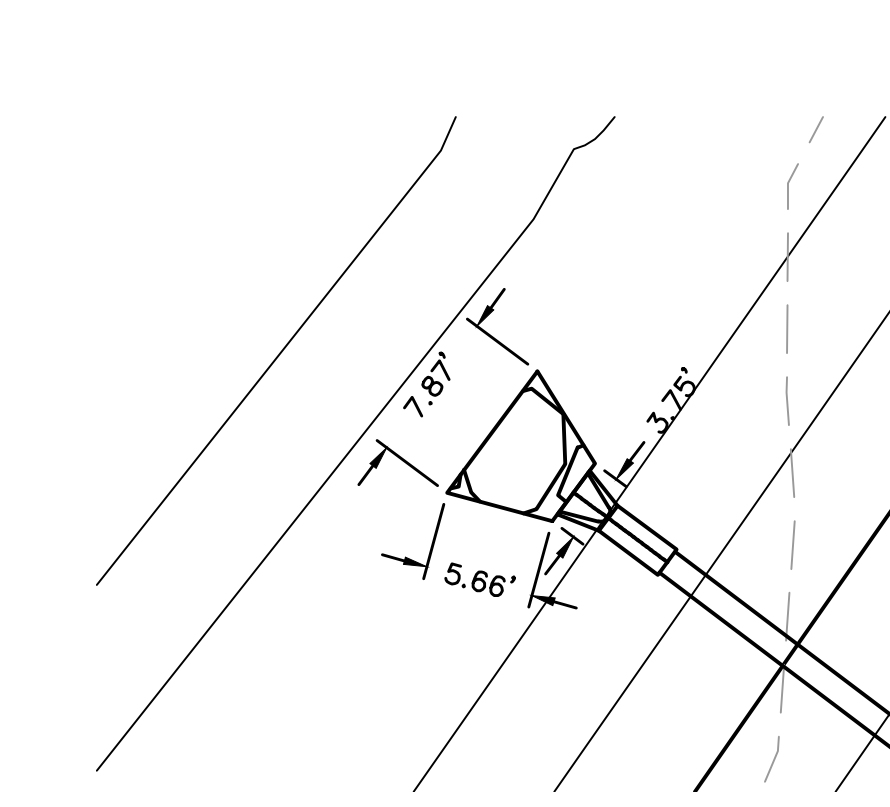
C501



- PLAN LEGEND**
 SEE SHEET C102 FOR EXISTING LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
- 999 FINISHED GRADE MAJOR CONTOUR
 - 999 FINISHED GRADE MINOR CONTOUR
 - 999 EXISTING GRADE MAJOR CONTOUR
 - 999 EXISTING GRADE MINOR CONTOUR
 - SD PROPOSED STORM SEWER (12" AND ABOVE)
 - SD PROPOSED STORM SEWER (BELOW 12")

- EASEMENT LEGEND**
- AE ACCESS EASEMENT
 - DE STORM DRAINAGE EASEMENT
 - EE ELECTRICAL EASEMENT
 - SB SETBACK
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NOTE
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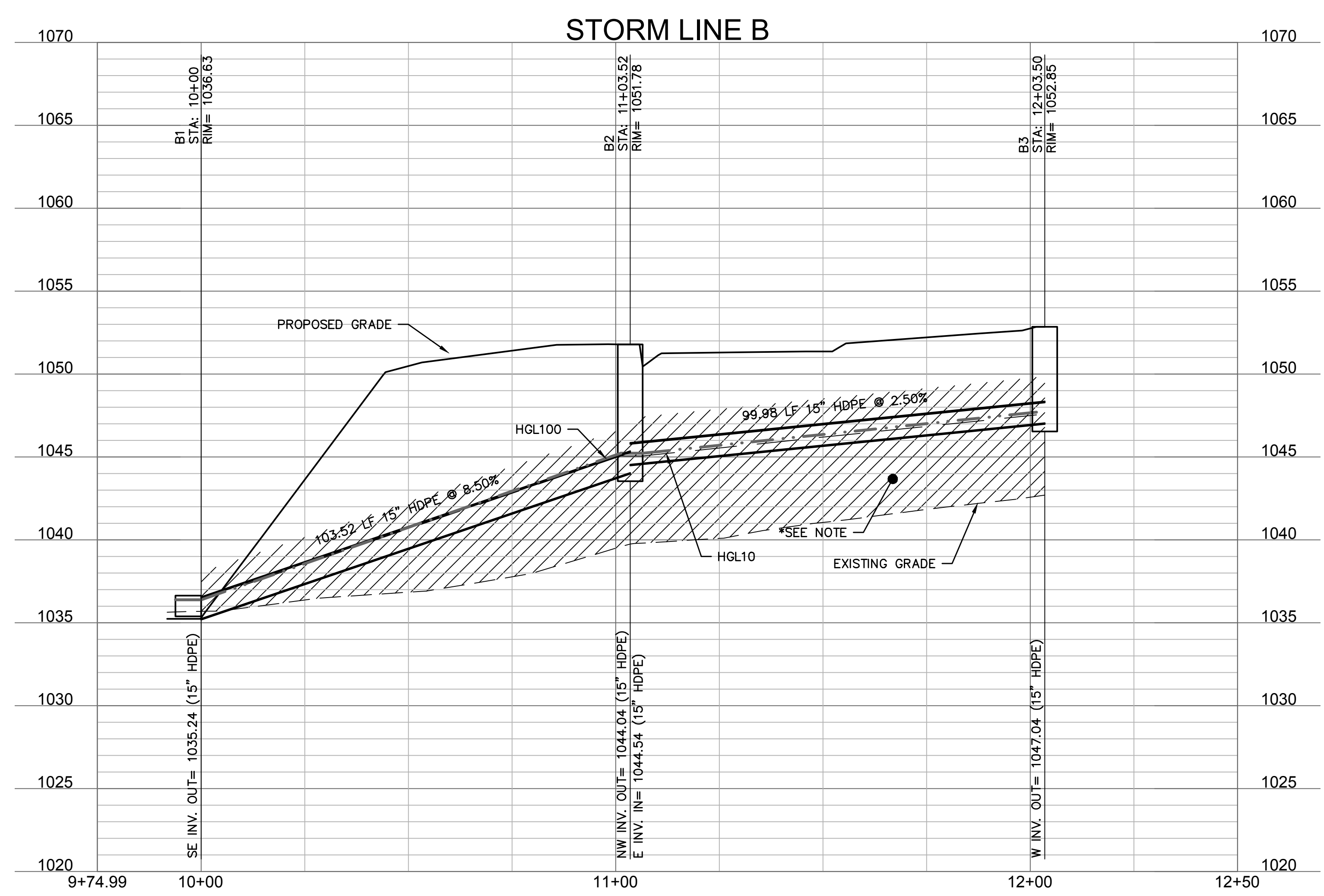
Riprap Calculations

End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)	Area (SQ)
B1	9.73	1.25	2	6	5	1.65	3.0

*Per Table 10.1 HEC 14-FHWA-Energy Dissipators Pg. 10-18

END SECTION B1 DETAIL

***NOTE**
 CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.



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SITE DEVELOPMENT PACKAGE

Platte County Middle School
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REVISIONS:

#	Description	Date

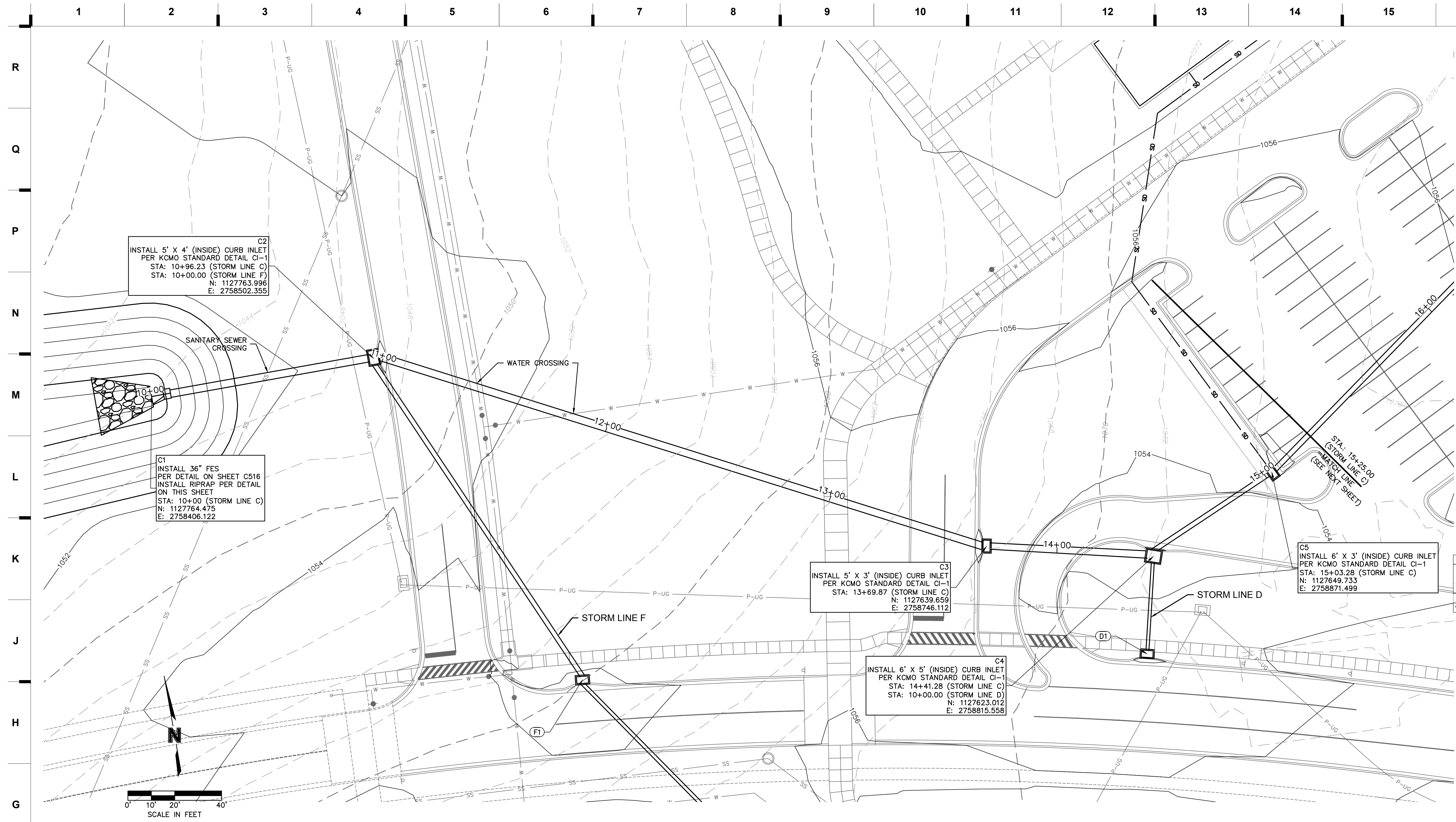
STATE OF MISSOURI
 DAVID L. EICKMAN
 PROFESSIONAL ENGINEER
 NUMBER PE-39909-04-01
 EXPIRES 12/31/2021

JOB NO: 20021
 DRAWN BY: AAGS/JUN/OS/QL
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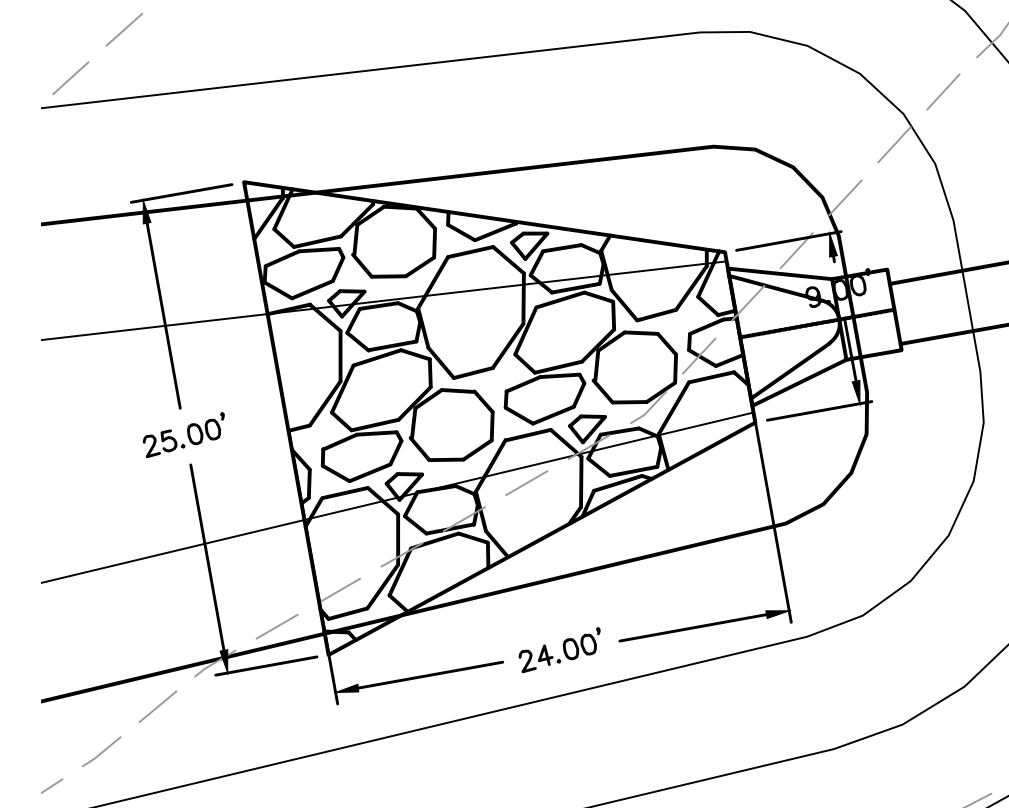
C502



- PLAN LEGEND**
 SEE SHEET C102 FOR EXISTING LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
- 999 — FINISHED GRADE MAJOR CONTOUR
 - 999 --- FINISHED GRADE MINOR CONTOUR
 - 999 --- EXISTING GRADE MAJOR CONTOUR
 - 999 --- EXISTING GRADE MINOR CONTOUR
 - == SD == PROPOSED STORM SEWER (12" AND ABOVE)
 - == SD == PROPOSED STORM SEWER (BELOW 12")

- EASEMENT LEGEND**
- AE ACCESS EASEMENT
 - DE STORM DRAINAGE EASEMENT
 - EE ELECTRICAL EASEMENT
 - SB SETBACK
 - SE SANITARY SEWER EASEMENT
 - VW VARIABLE WIDTH
 - WE WATER EASEMENT
 - GE GAS EASEMENT

NOTE
 FOR PROPOSED DRAIN BASINS SEE SHEETS C510-C511.

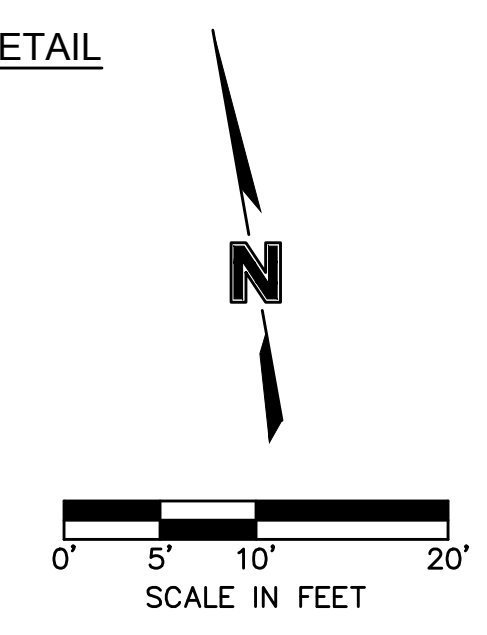


Riprap Calculations

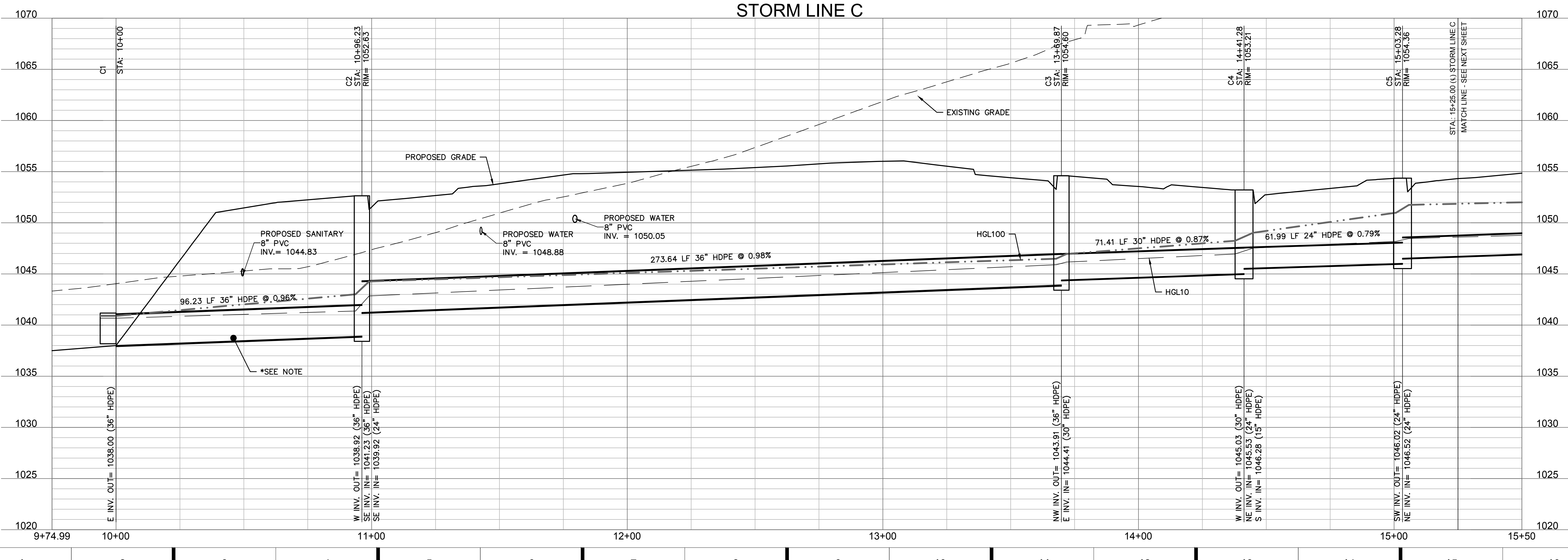
End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)	Area (SY)
C1	100.33	3	6	22	24	3.67	45.3

*Per Table 10.1 HEC-14-FHWA-Energy Dissipators Pg. 10-18

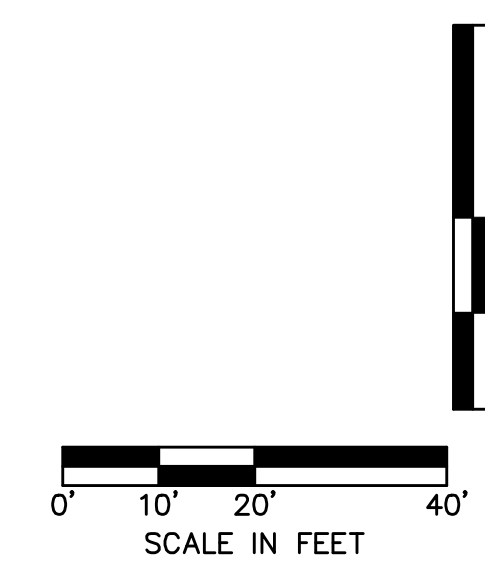
END SECTION C1 DETAIL



STORM LINE C



***NOTE**
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Platte County Middle School
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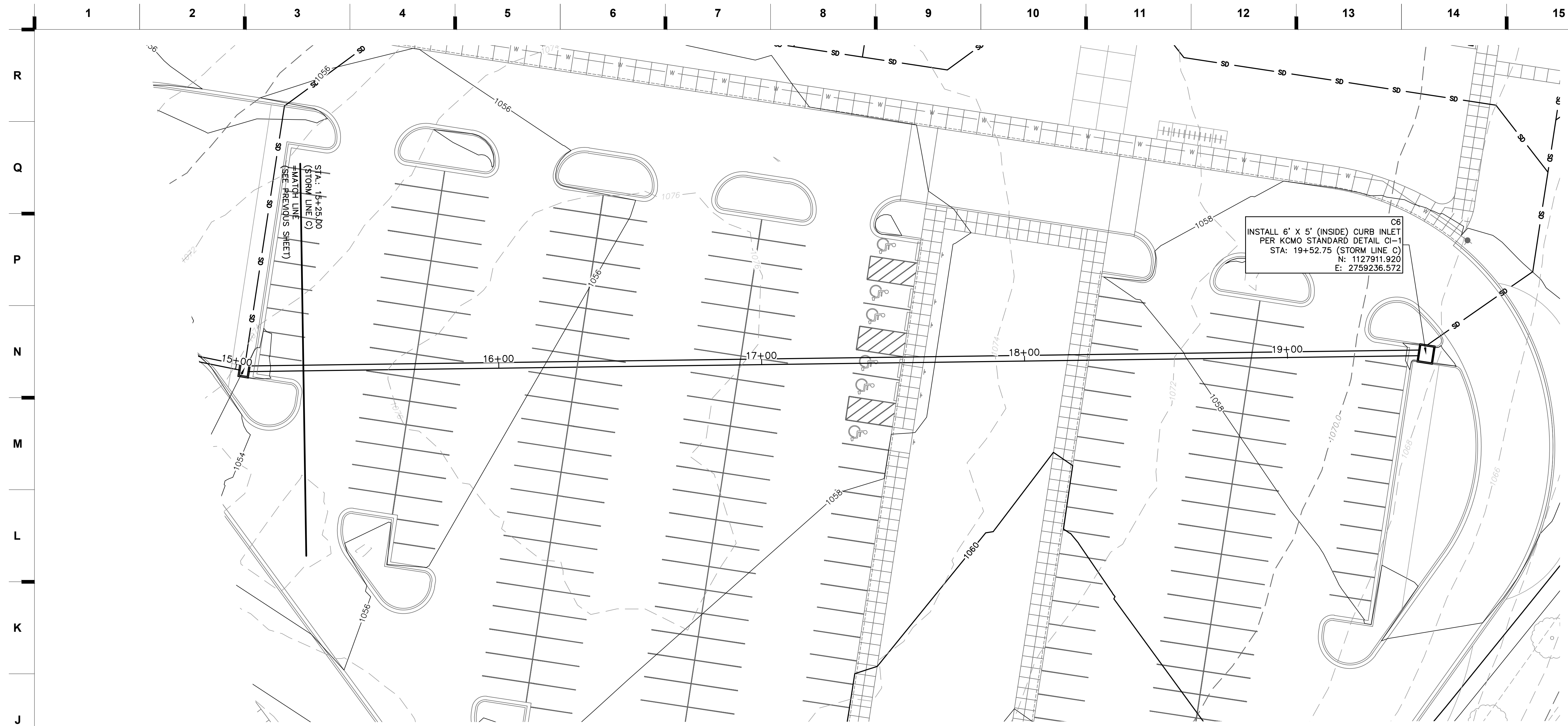
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#	Description	Date

DAVID L. EICKMAN
 PROFESSIONAL ENGINEER
 NUMBER PE-39909-0430
 STATE OF MISSOURI

JOB NO: 2021
 DRAWN BY: AAGS/JUN/S/O/L
 CHECKED BY: DE
 DATE: 08.16.2021

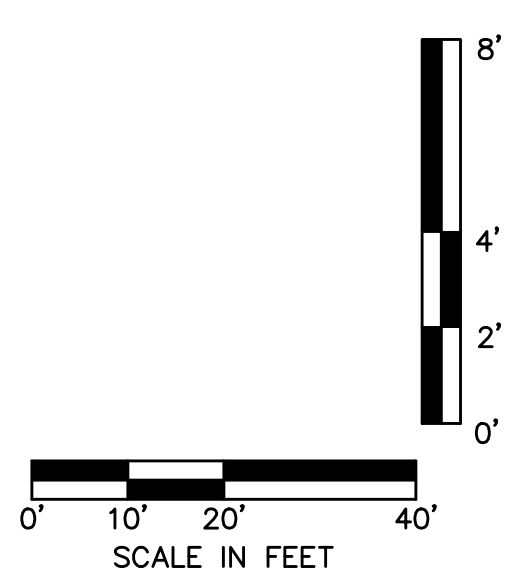
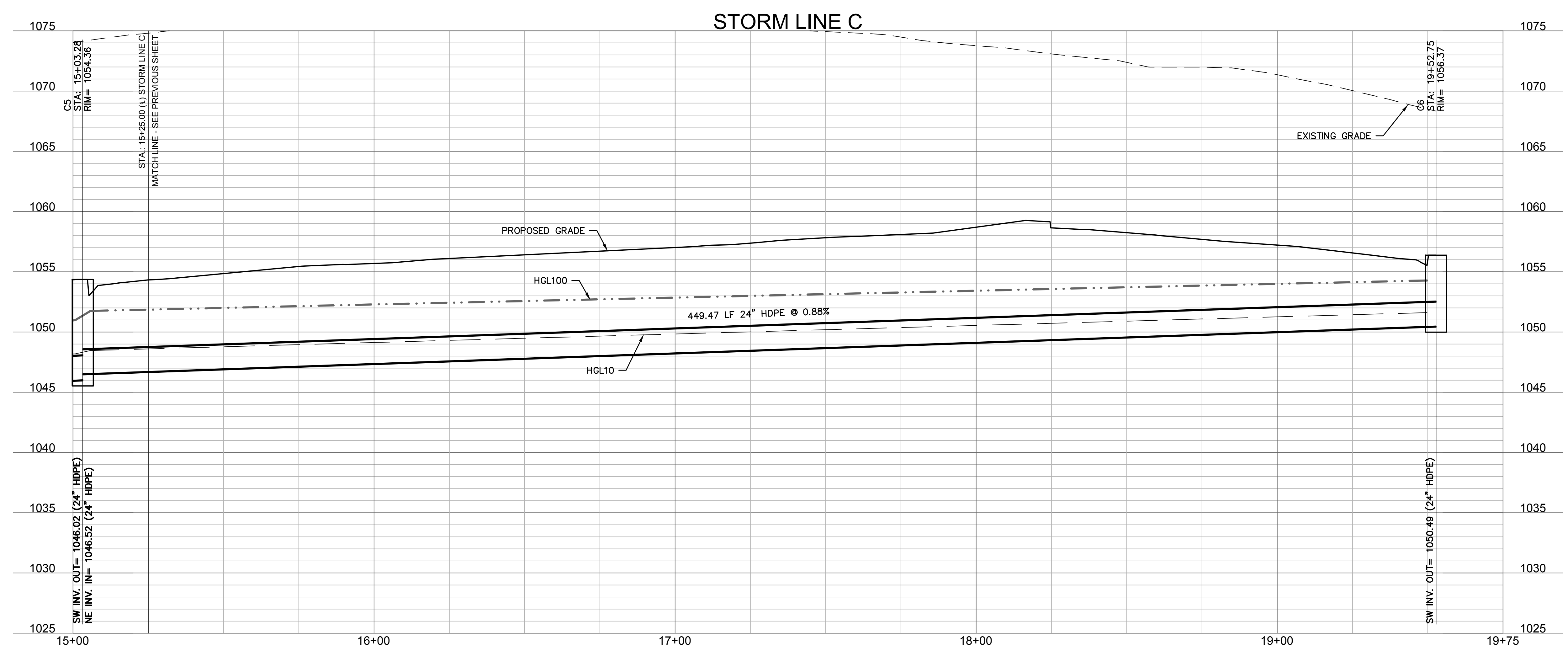
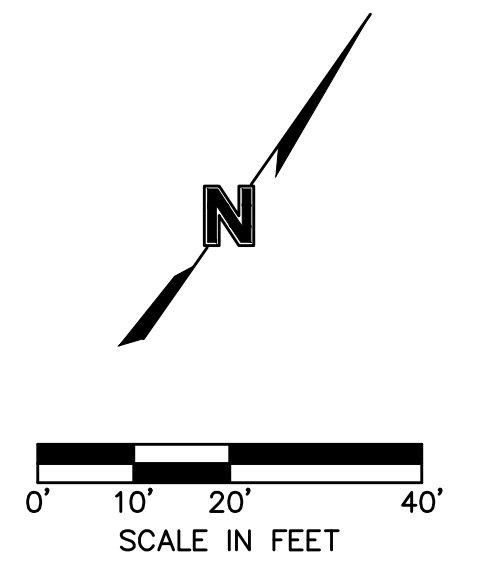
C503



- PLAN LEGEND**
 SEE SHEET C102 FOR EXISTING LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
- 999 — FINISHED GRADE MAJOR CONTOUR
 - 999 — FINISHED GRADE MINOR CONTOUR
 - 999 — EXISTING GRADE MAJOR CONTOUR
 - 999 — EXISTING GRADE MINOR CONTOUR
 - SO — SO — PROPOSED STORM SEWER (12" AND ABOVE)
 - SO — SO — PROPOSED STORM SEWER (BELOW 12")

- EASEMENT LEGEND**
- AE ACCESS EASEMENT
 - DE STORM DRAINAGE EASEMENT
 - EE ELECTRICAL EASEMENT
 - SB SETBACK
 - SE SANITARY SEWER EASEMENT
 - VW VARIABLE WIDTH
 - WE WATER EASEMENT
 - GE GAS EASEMENT

NOTE
 FOR PROPOSED DRAIN BASINS SEE SHEETS C510-C511.



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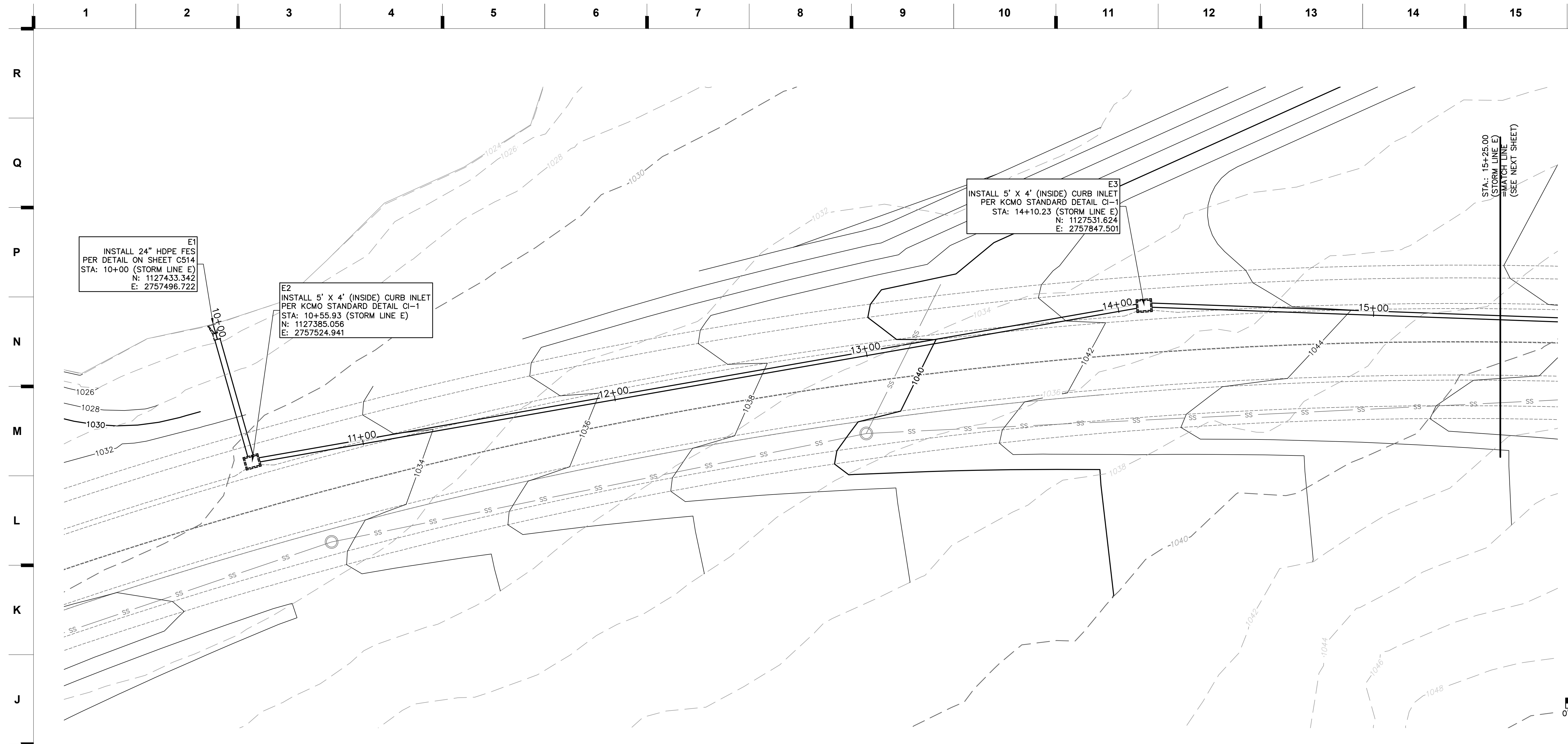
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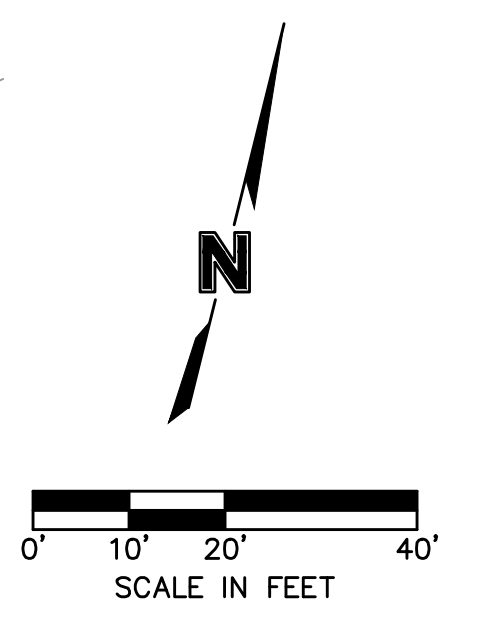
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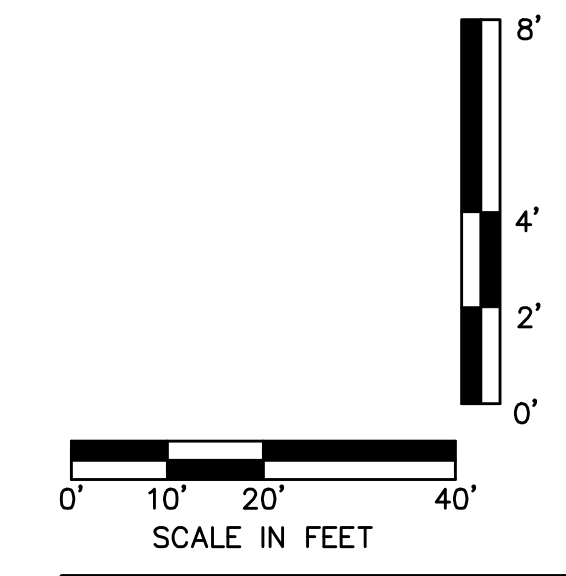
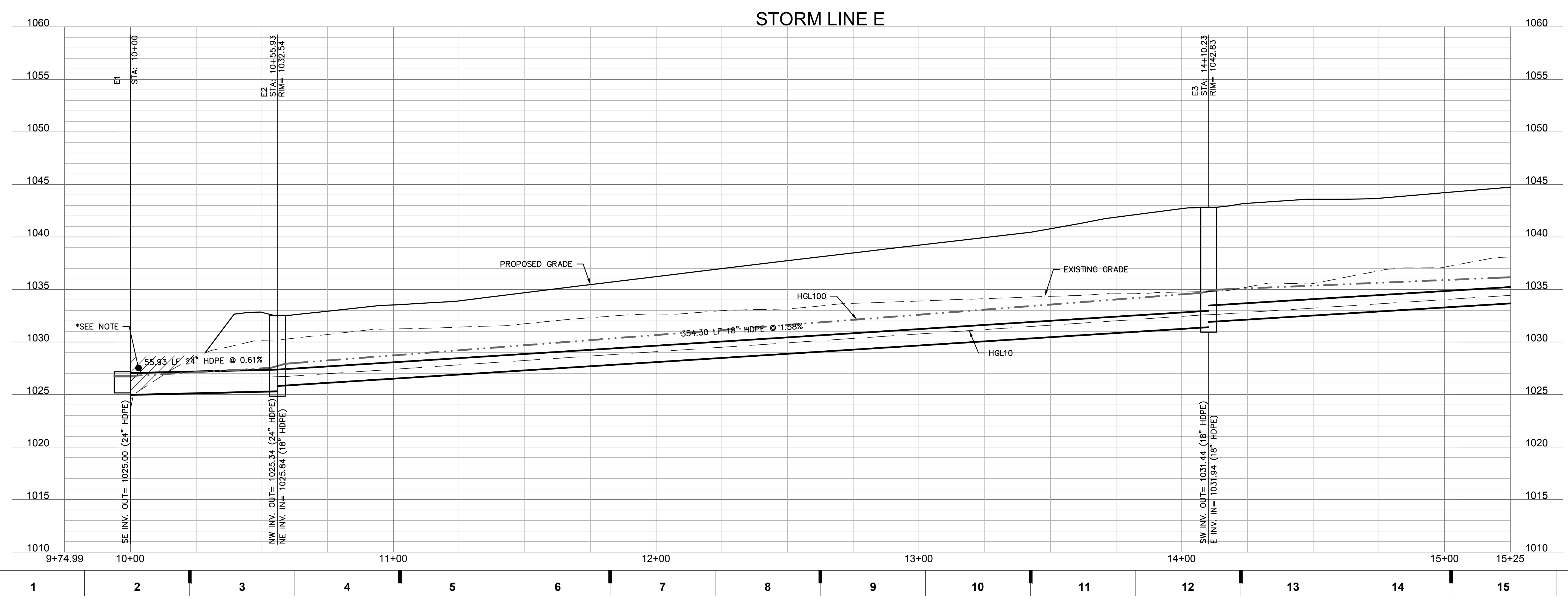
- PLAN LEGEND**
 SEE SHEET C102 FOR EXISTING LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
- 999 — FINISHED GRADE MAJOR CONTOUR
 - 999 — FINISHED GRADE MINOR CONTOUR
 - - - 999 - - - EXISTING GRADE MAJOR CONTOUR
 - - - 999 - - - EXISTING GRADE MINOR CONTOUR
 - 12" — 12" — PROPOSED STORM SEWER (12" AND ABOVE)
 - 12" — 12" — PROPOSED STORM SEWER (BELOW 12")

- EASEMENT LEGEND**
- AE ACCESS EASEMENT
 - DE STORM DRAINAGE EASEMENT
 - EE ELECTRICAL EASEMENT
 - SB SETBACK
 - SE SANITARY SEWER EASEMENT
 - VW VARIABLE WIDTH
 - WE WATER EASEMENT
 - GE GAS EASEMENT

NOTE
 FOR PROPOSED DRAIN BASINS SEE SHEETS C510—C511.



***NOTE**
 CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.



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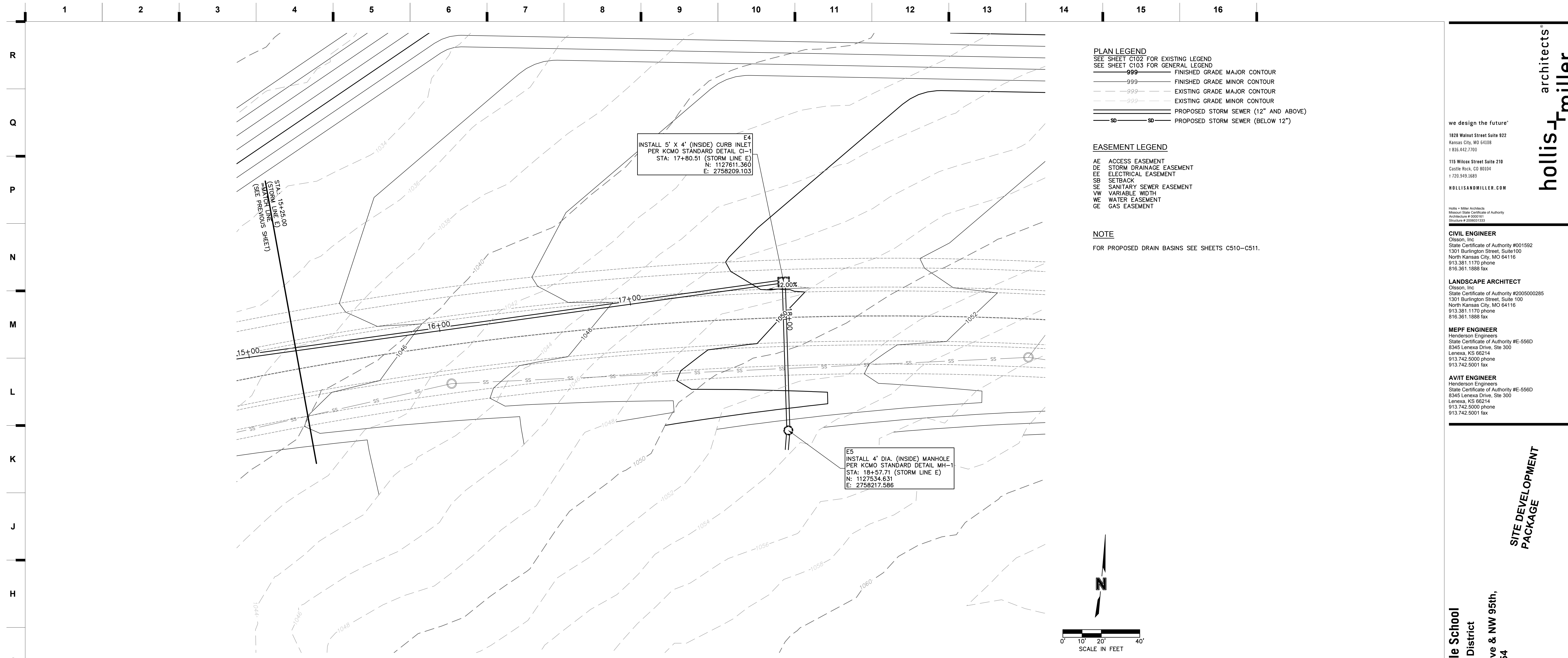


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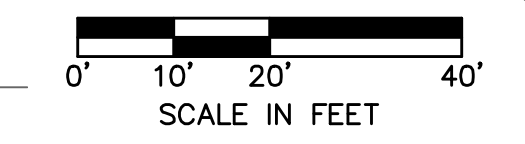
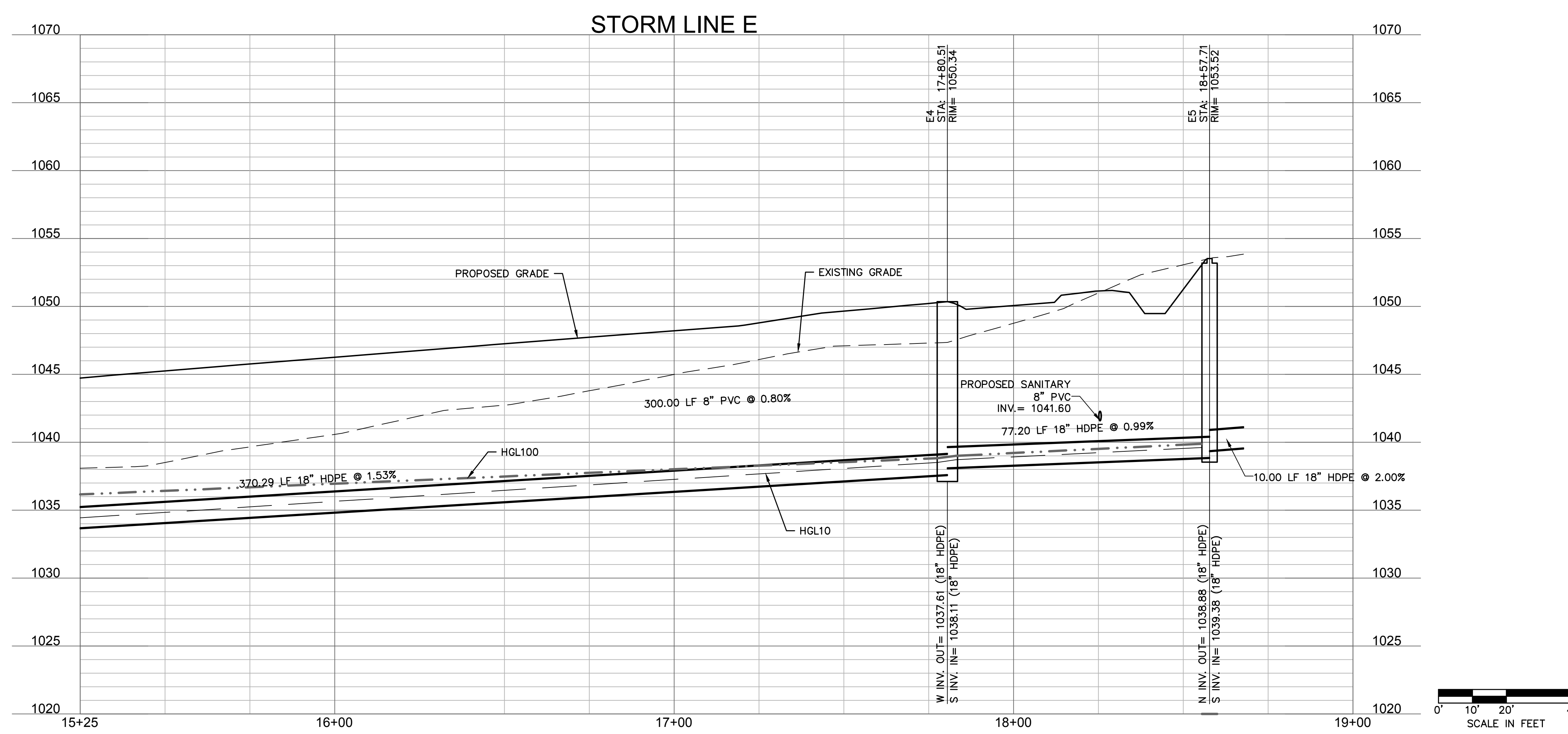
C505



- PLAN LEGEND**
 SEE SHEET C102 FOR EXISTING LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
- 999— FINISHED GRADE MAJOR CONTOUR
 - 999- FINISHED GRADE MINOR CONTOUR
 - 999- EXISTING GRADE MAJOR CONTOUR
 - 999- EXISTING GRADE MINOR CONTOUR
 - SS PROPOSED STORM SEWER (12" AND ABOVE)
 - SS PROPOSED STORM SEWER (BELOW 12")

- EASEMENT LEGEND**
- AE ACCESS EASEMENT
 - DE STORM DRAINAGE EASEMENT
 - EE ELECTRICAL EASEMENT
 - SB SETBACK
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 - VW VARIABLE WIDTH
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NOTE
 FOR PROPOSED DRAIN BASINS SEE SHEETS C510-C511.



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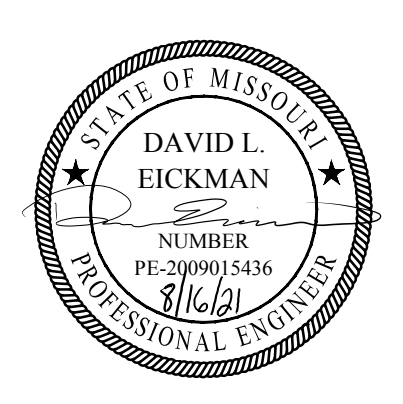
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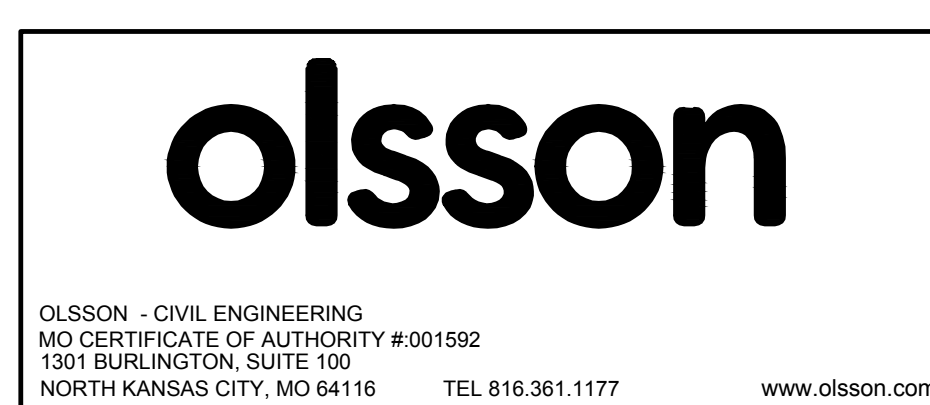
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Kansas City, MO 64154

REVISIONS:

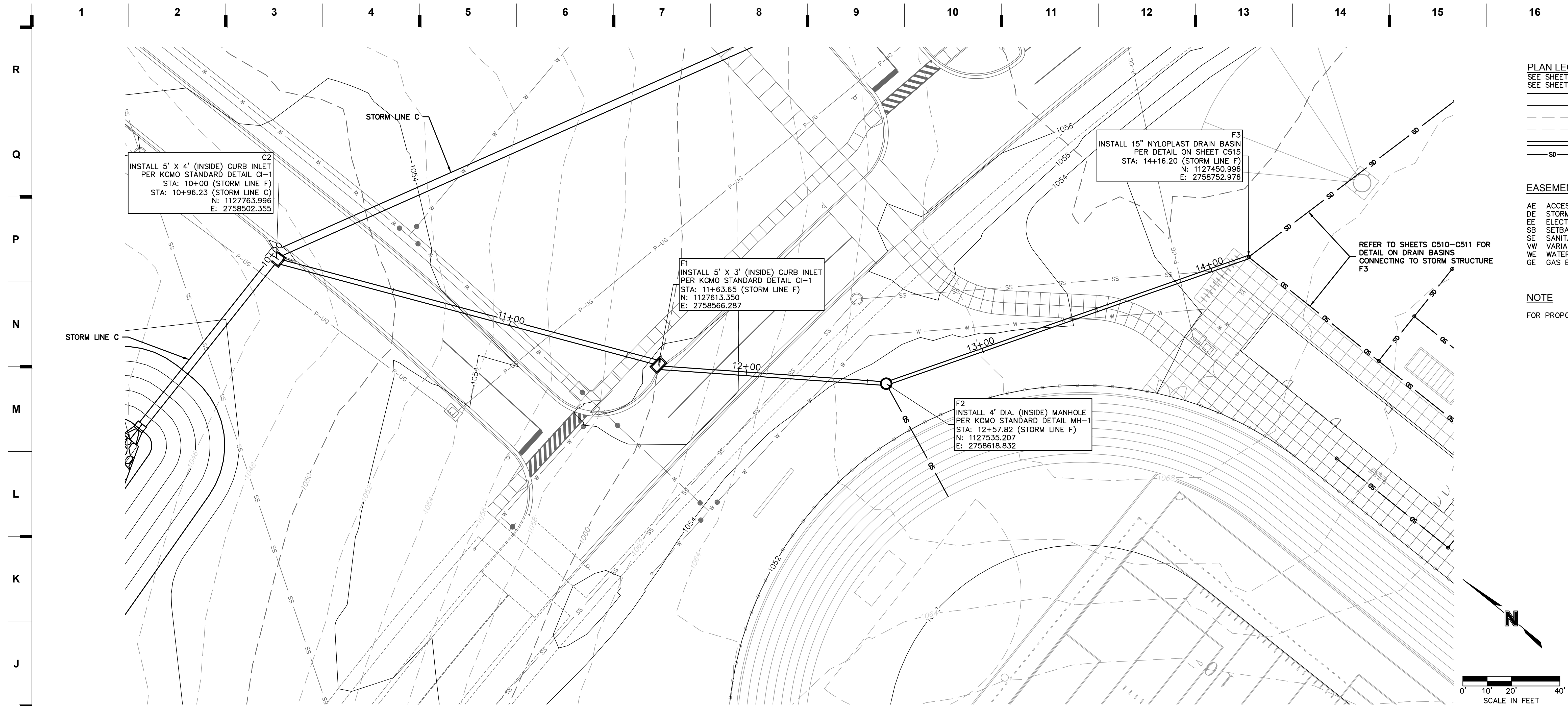
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C506



- PLAN LEGEND**
 SEE SHEET C102 FOR EXISTING LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
- 999 FINISHED GRADE MAJOR CONTOUR
 - 999 FINISHED GRADE MINOR CONTOUR
 - 999 EXISTING GRADE MAJOR CONTOUR
 - 999 EXISTING GRADE MINOR CONTOUR
 - SS PROPOSED STORM SEWER (12" AND ABOVE)
 - SS PROPOSED STORM SEWER (BELOW 12")

- EASEMENT LEGEND**
- AE ACCESS EASEMENT
 - DE STORM DRAINAGE EASEMENT
 - EE ELECTRICAL EASEMENT
 - SB SETBACK
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 - VW VARIABLE WIDTH
 - WE WATER EASEMENT
 - GE GAS EASEMENT

NOTE
 FOR PROPOSED DRAIN BASINS SEE SHEETS C510-C511.

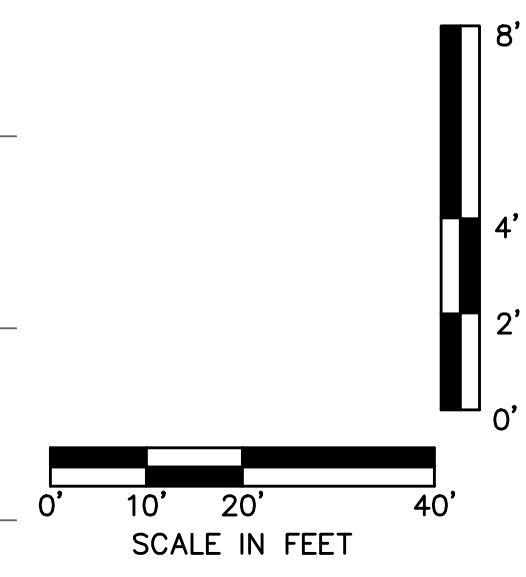
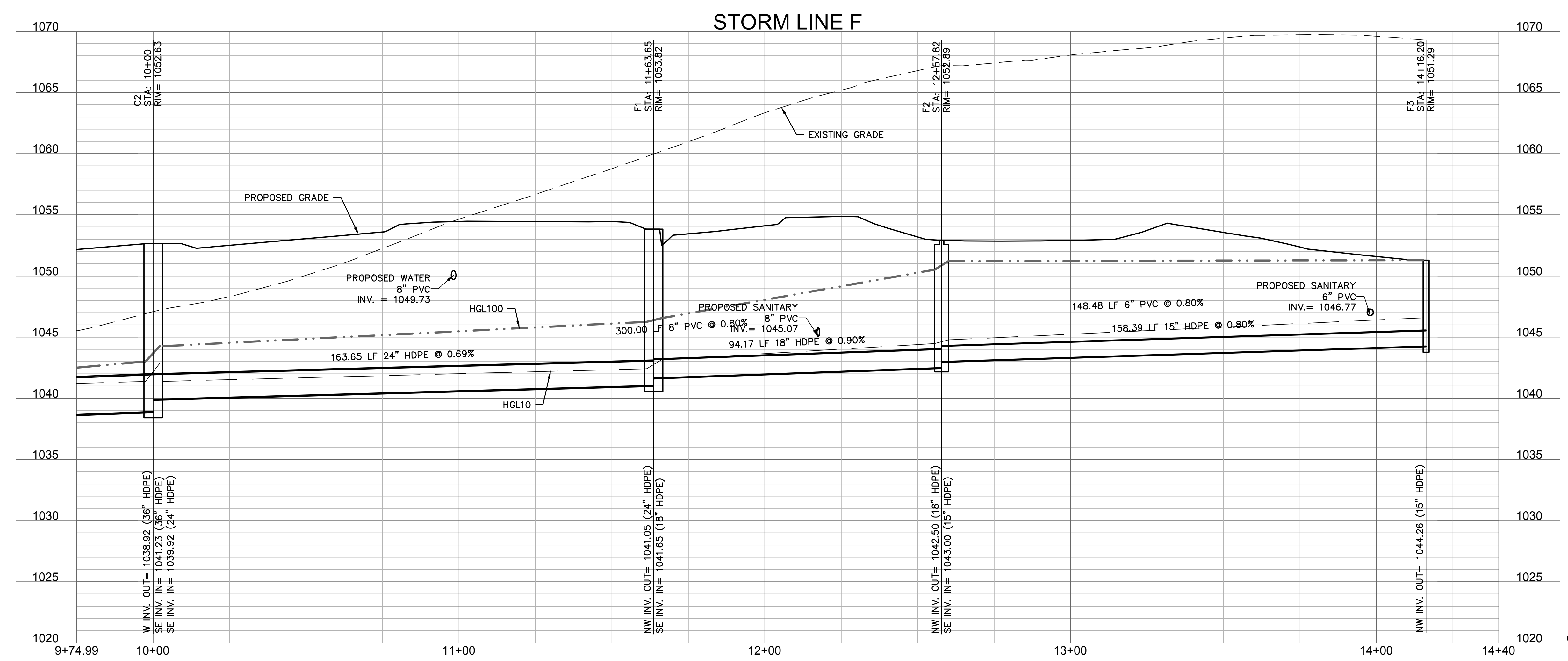
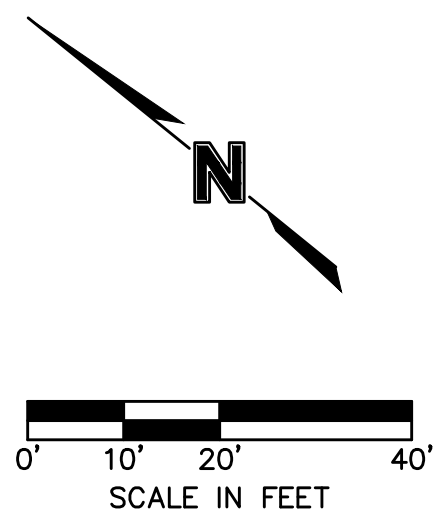
C2
 INSTALL 5' X 4' (INSIDE) CURB INLET
 PER KCMO STANDARD DETAIL CI-1
 STA: 10+00 (STORM LINE F)
 STA: 10+96.23 (STORM LINE C)
 N: 1127763.996
 E: 2758592.355

F1
 INSTALL 5' X 3' (INSIDE) CURB INLET
 PER KCMO STANDARD DETAIL CI-1
 STA: 11+63.65 (STORM LINE F)
 N: 1127613.350
 E: 2758566.287

F3
 INSTALL 15" NYLOPLAST DRAIN BASIN
 PER DETAIL ON SHEET C515
 STA: 14+16.20 (STORM LINE F)
 N: 1127450.996
 E: 2758752.976

F2
 INSTALL 4' DIA. (INSIDE) MANHOLE
 PER KCMO STANDARD DETAIL MH-1
 STA: 12+57.82 (STORM LINE F)
 N: 1127535.207
 E: 2758618.832

REFER TO SHEETS C510-C511 FOR
 DETAIL ON DRAIN BASINS
 CONNECTING TO STORM STRUCTURE
 F3



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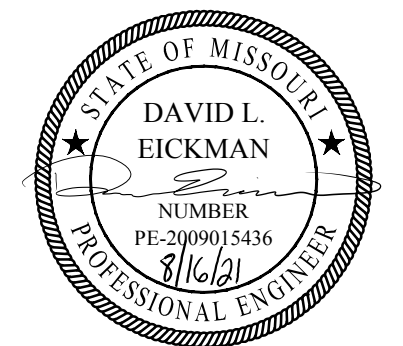
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REVISIONS:

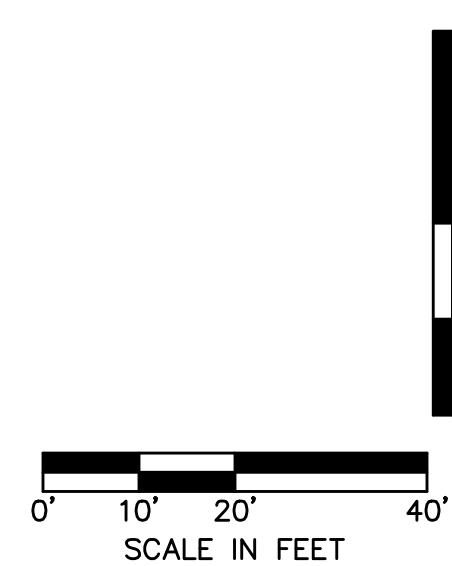
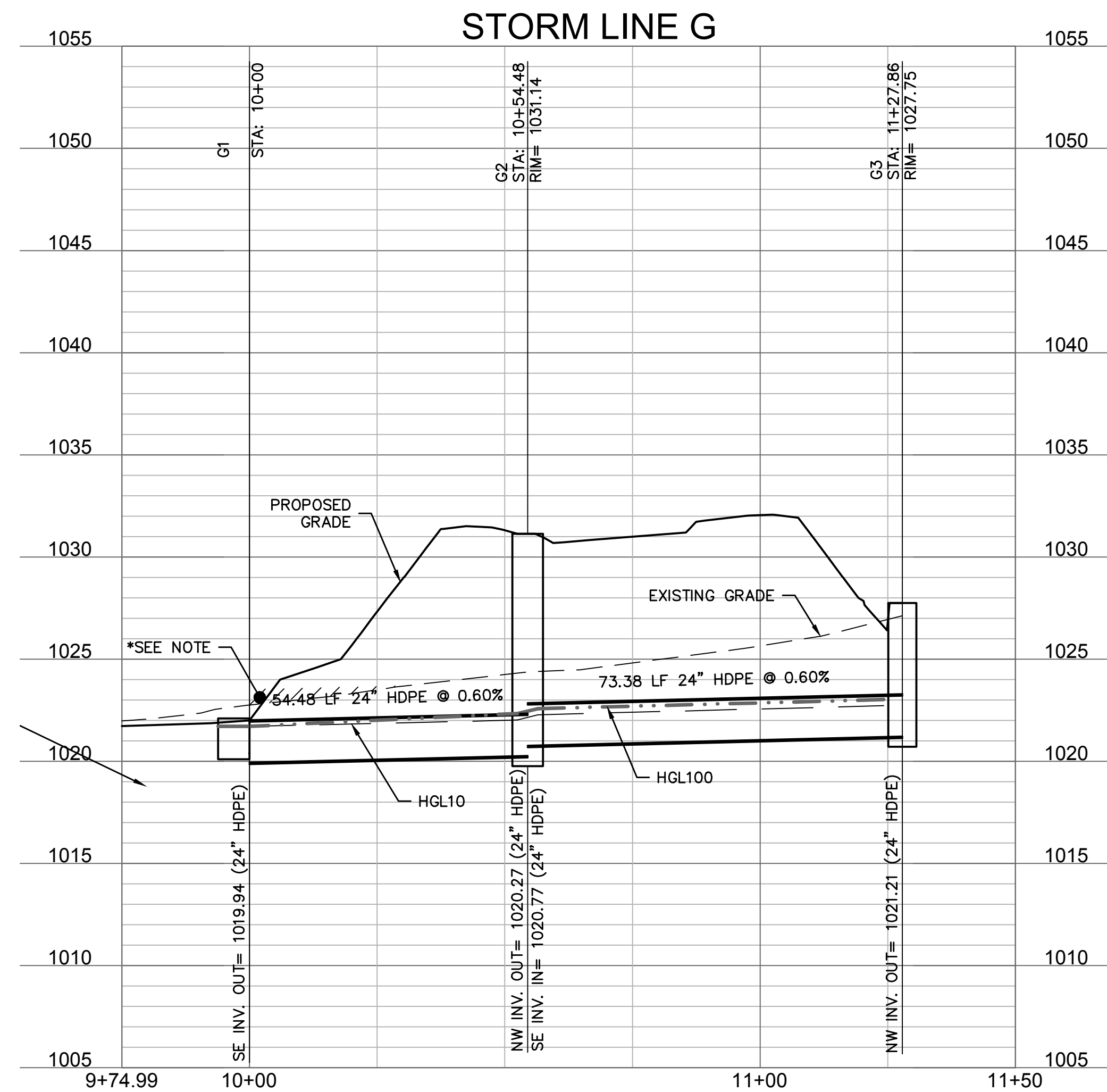
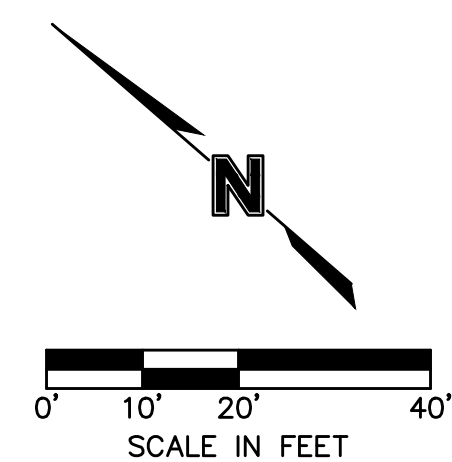
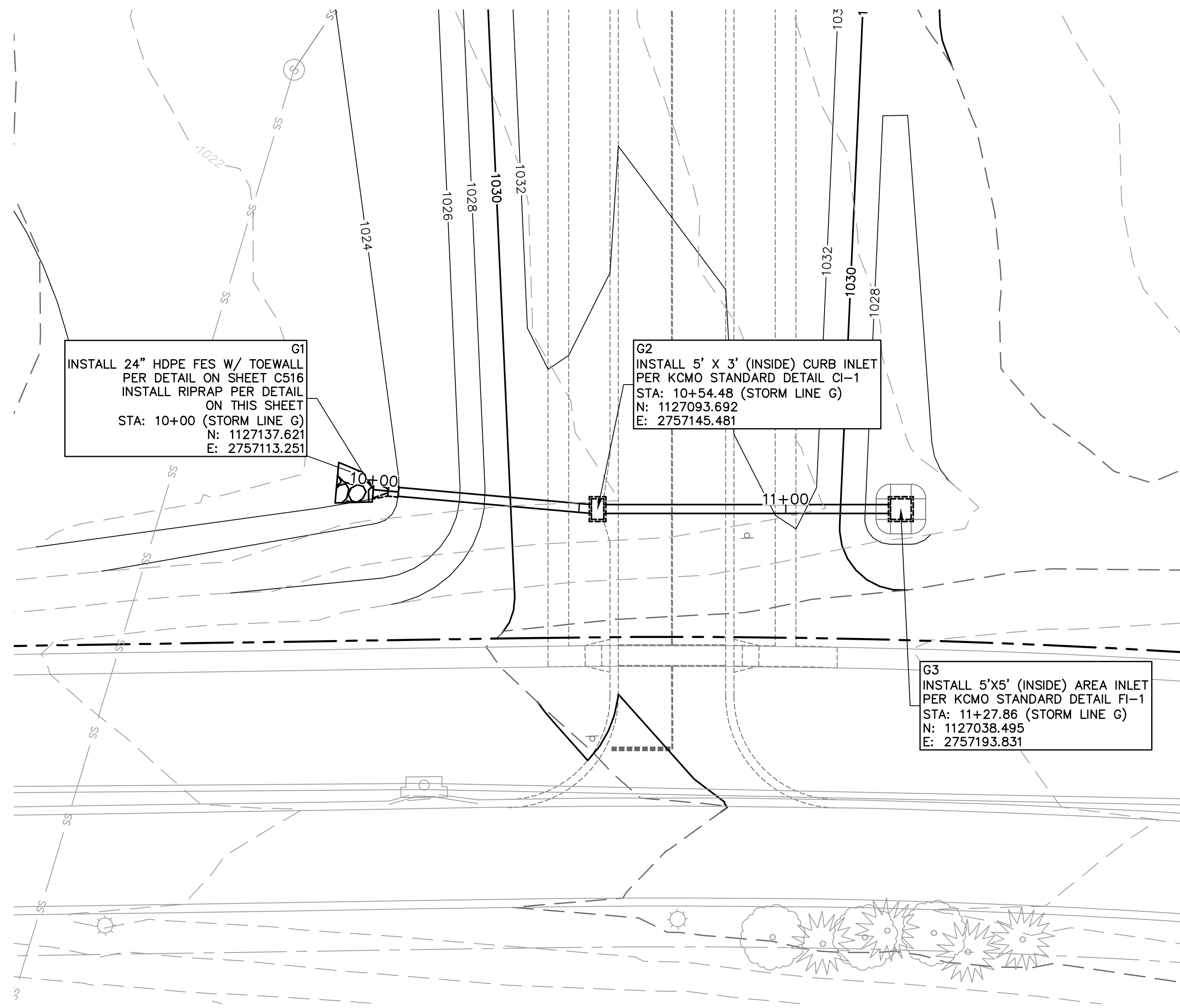
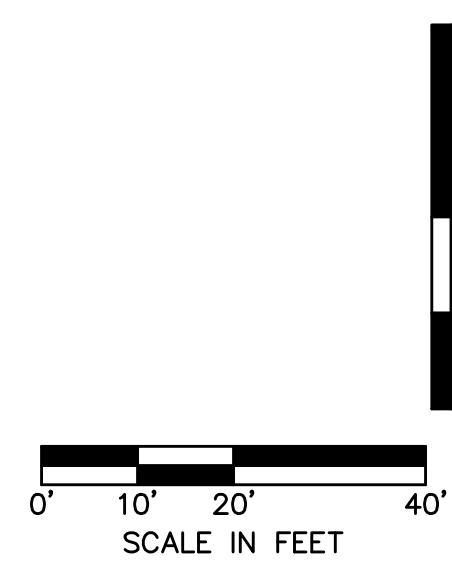
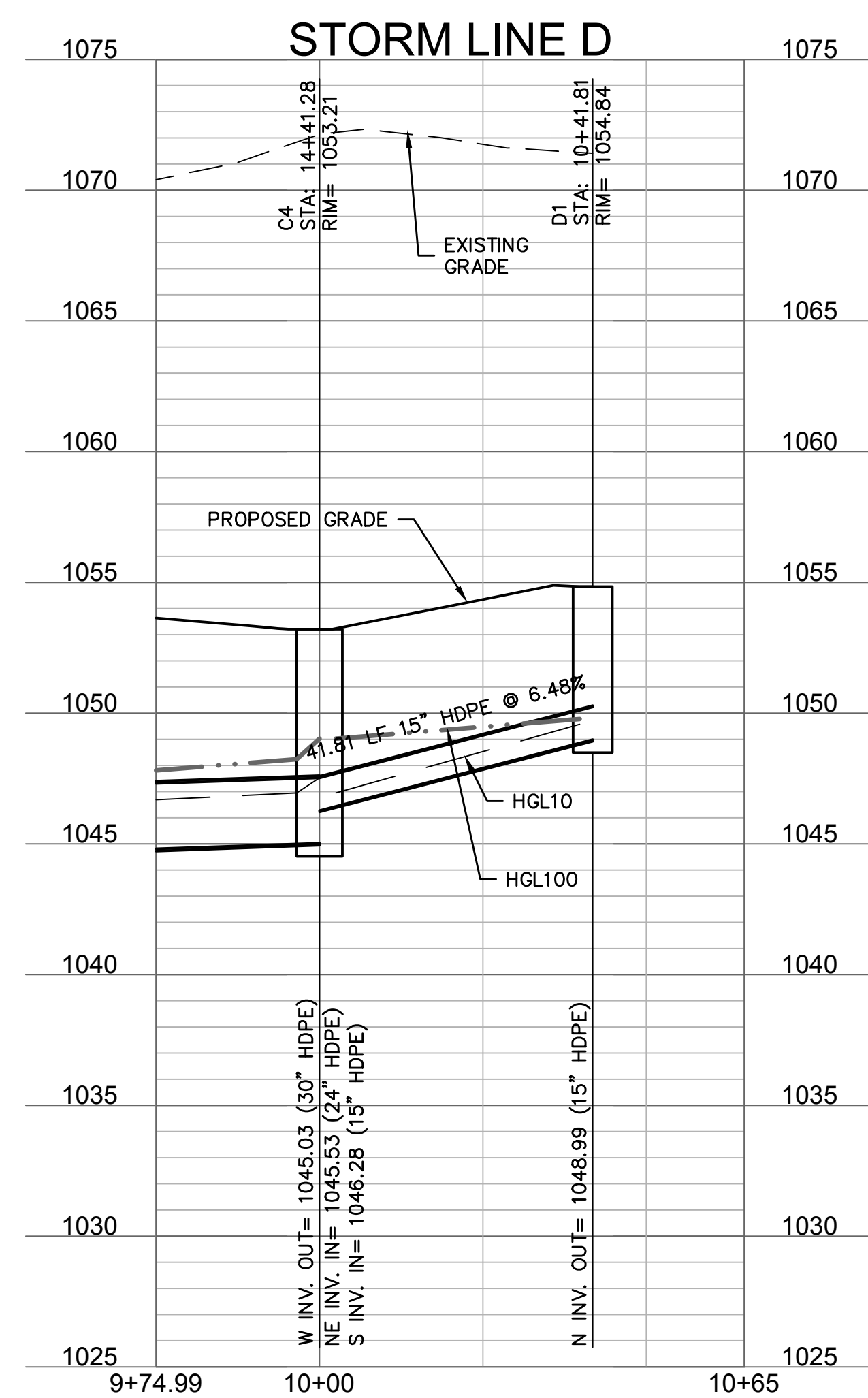
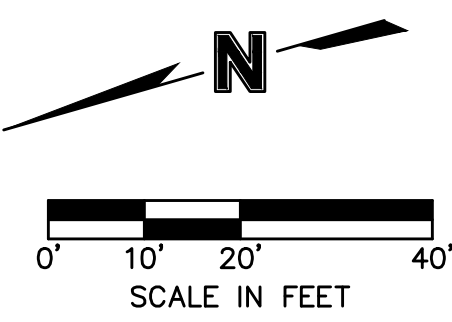
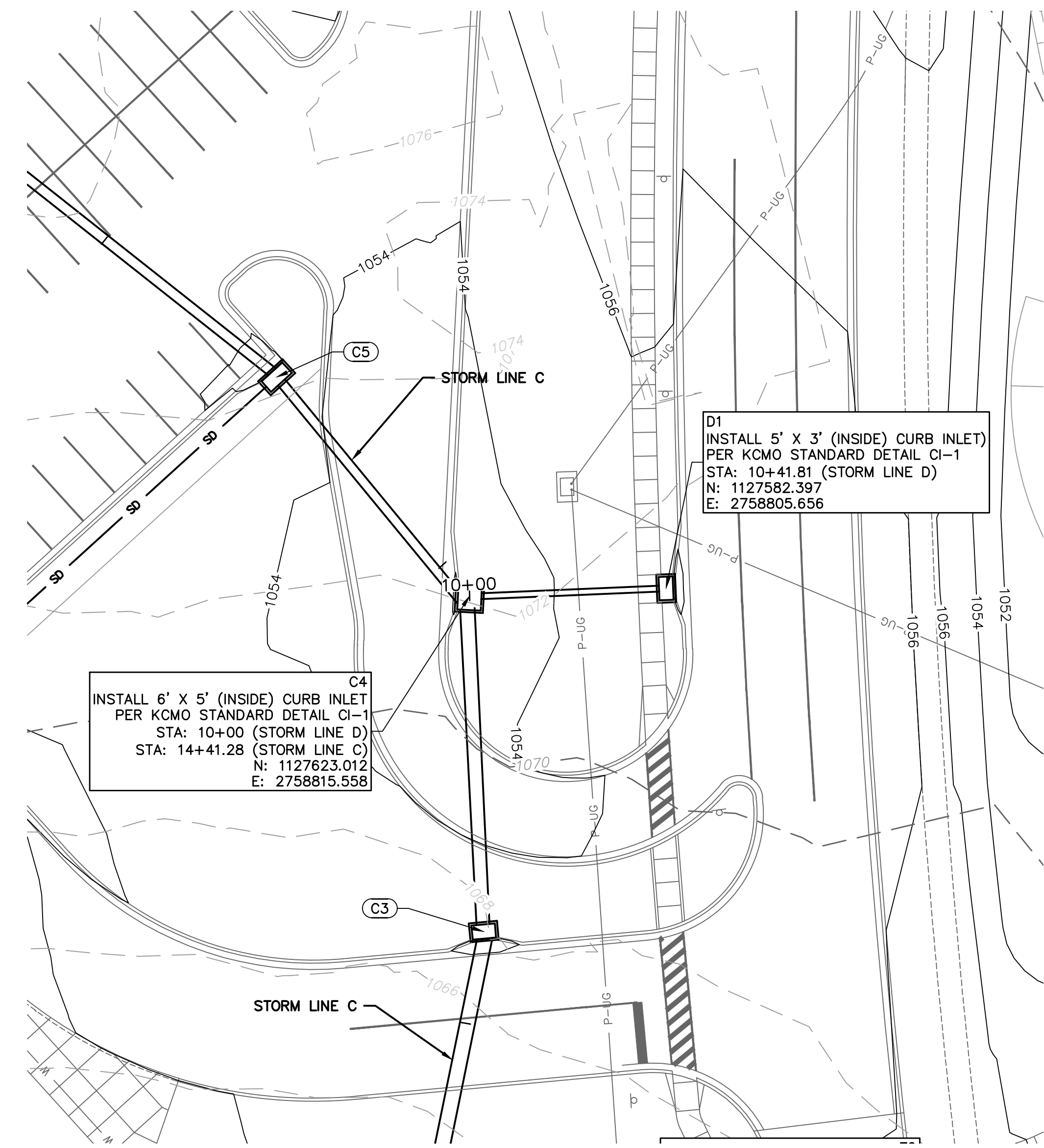
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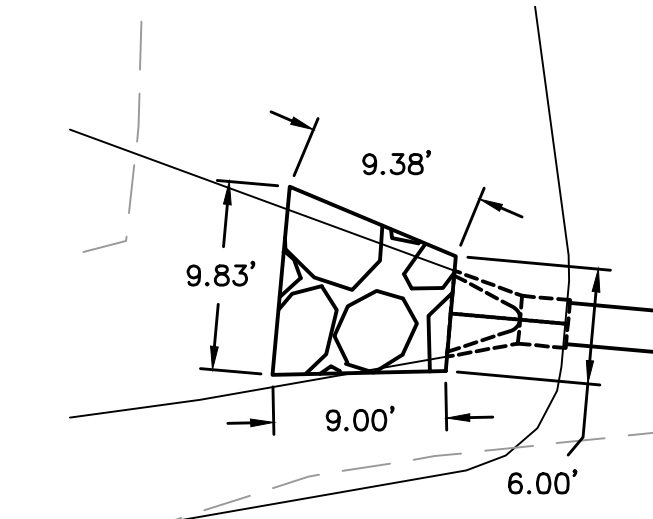
C507



- PLAN LEGEND**
 SEE SHEET C102 FOR EXISTING LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
- 999— FINISHED GRADE MAJOR CONTOUR
 - 999— FINISHED GRADE MINOR CONTOUR
 - - -999- - - EXISTING GRADE MAJOR CONTOUR
 - - -999- - - EXISTING GRADE MINOR CONTOUR
 - SD—SD— PROPOSED STORM SEWER (12" AND ABOVE)
 - SD—SD— PROPOSED STORM SEWER (BELOW 12")

- EASEMENT LEGEND**
- AE ACCESS EASEMENT
 - DE STORM DRAINAGE EASEMENT
 - EE ELECTRICAL EASEMENT
 - SB SETBACK
 - SE SANITARY SEWER EASEMENT
 - VW VARIABLE WIDTH
 - WE WATER EASEMENT
 - GE GAS EASEMENT

NOTE
 FOR PROPOSED DRAIN BASINS SEE SHEETS C510-C511.



Riprap Calculations

End Section	Q ₁₀₀ (cfs)	Pipe Diameter (ft)	Class*	D50* (in)	Apron Length (ft)	Apron Depth (ft)	Area (Sq)
G1	22.64	2	2	6	-	1.65	20.2

*Per Table 10.1 HEC-14-FHWA-Energy Dissipators Pg. 10-18

END SECTION G1 DETAIL

***NOTE**
 CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.

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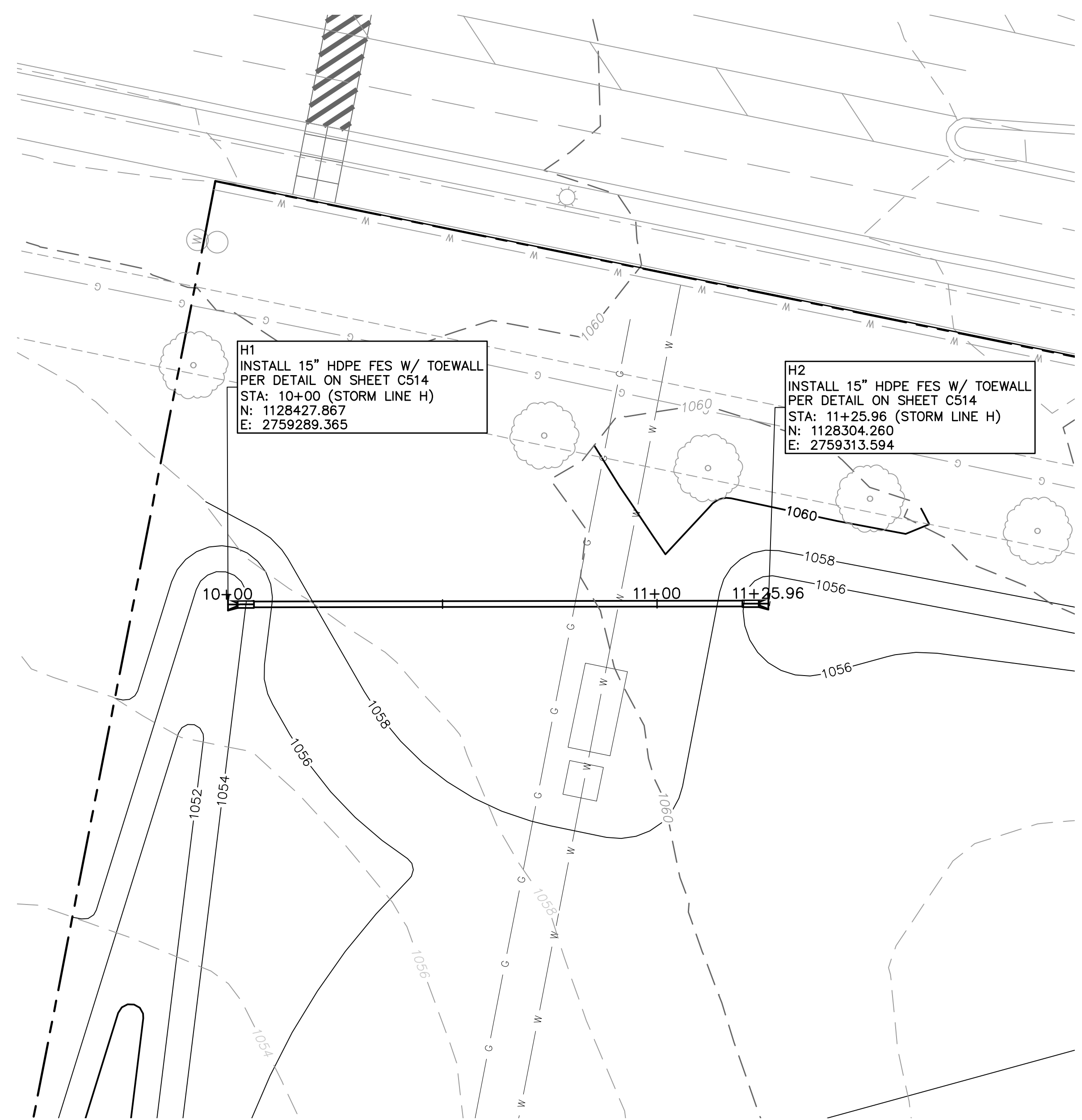
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 DAVID L. EICKMAN
 PROFESSIONAL ENGINEER
 NUMBER PE-39903-0438
 EXPIRES 12/31/2021

JOB NO: 20221
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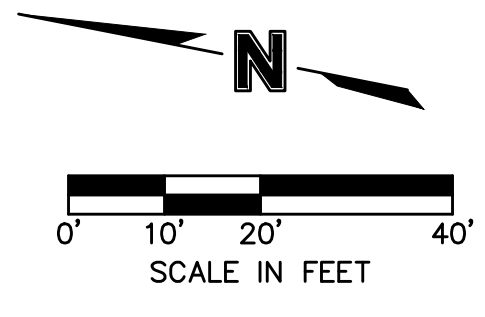
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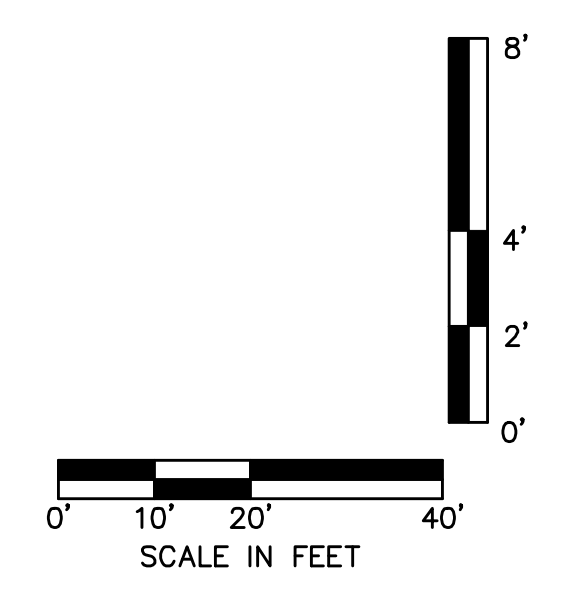
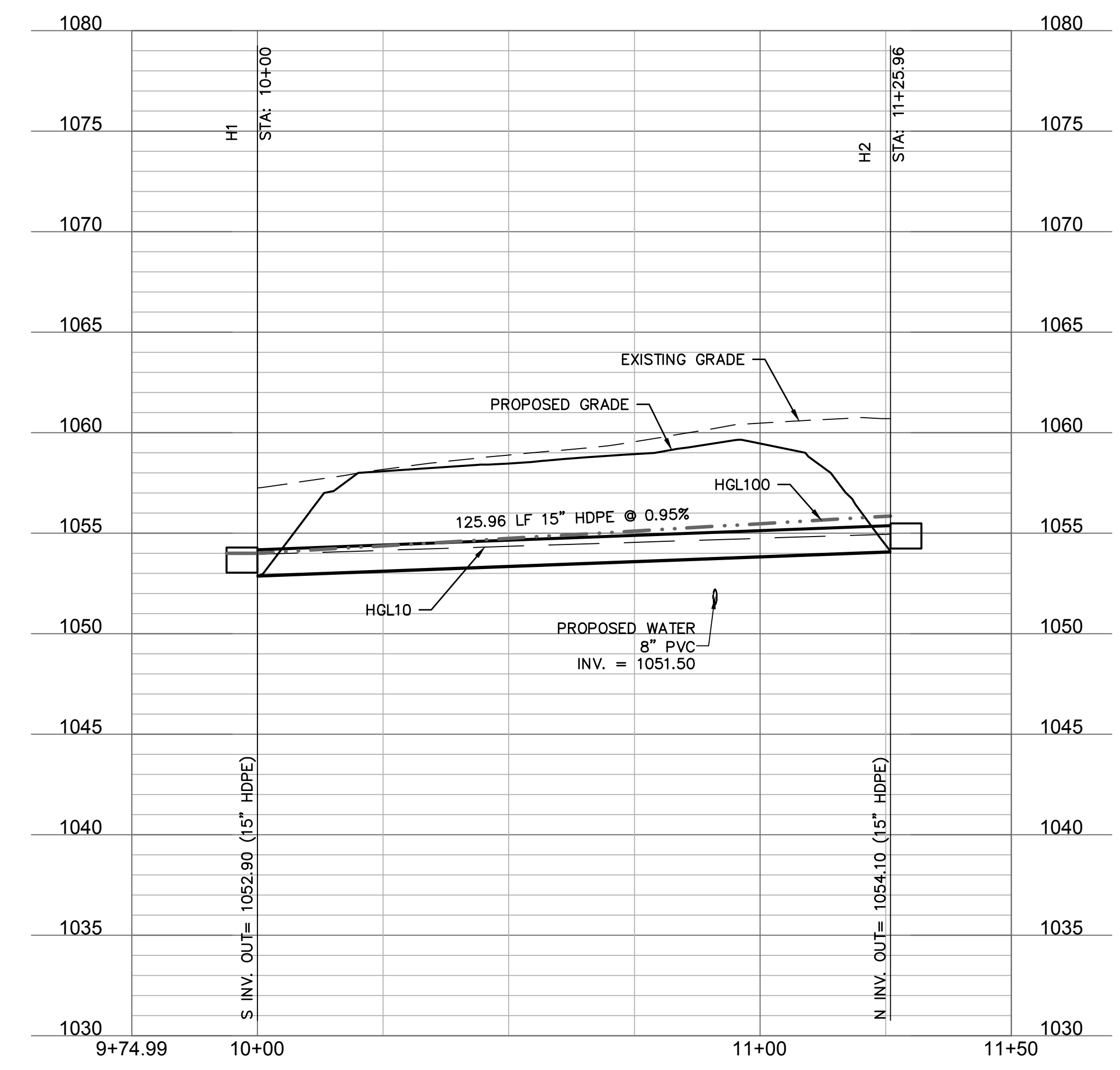
- PLAN LEGEND**
 SEE SHEET C102 FOR EXISTING LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
- 999 — FINISHED GRADE MAJOR CONTOUR
 - 999 — FINISHED GRADE MINOR CONTOUR
 - - - 999 - - - EXISTING GRADE MAJOR CONTOUR
 - - - 999 - - - EXISTING GRADE MINOR CONTOUR
 - SD — SD — PROPOSED STORM SEWER (12" AND ABOVE)
 - SD — SD — PROPOSED STORM SEWER (BELOW 12")

- EASEMENT LEGEND**
- AE ACCESS EASEMENT
 - DE STORM DRAINAGE EASEMENT
 - EE ELECTRICAL EASEMENT
 - SB SETBACK
 - SE SANITARY SEWER EASEMENT
 - VW VARIABLE WIDTH
 - WE WATER EASEMENT
 - GE GAS EASEMENT

NOTE
 FOR PROPOSED DRAIN BASINS SEE SHEETS C510-C511.



STORM LINE H



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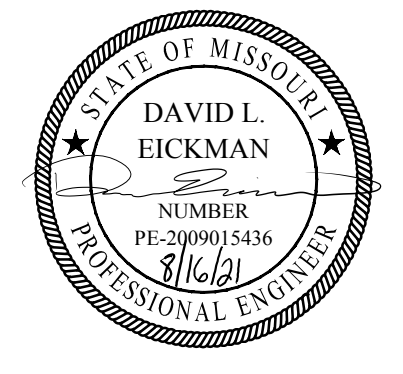
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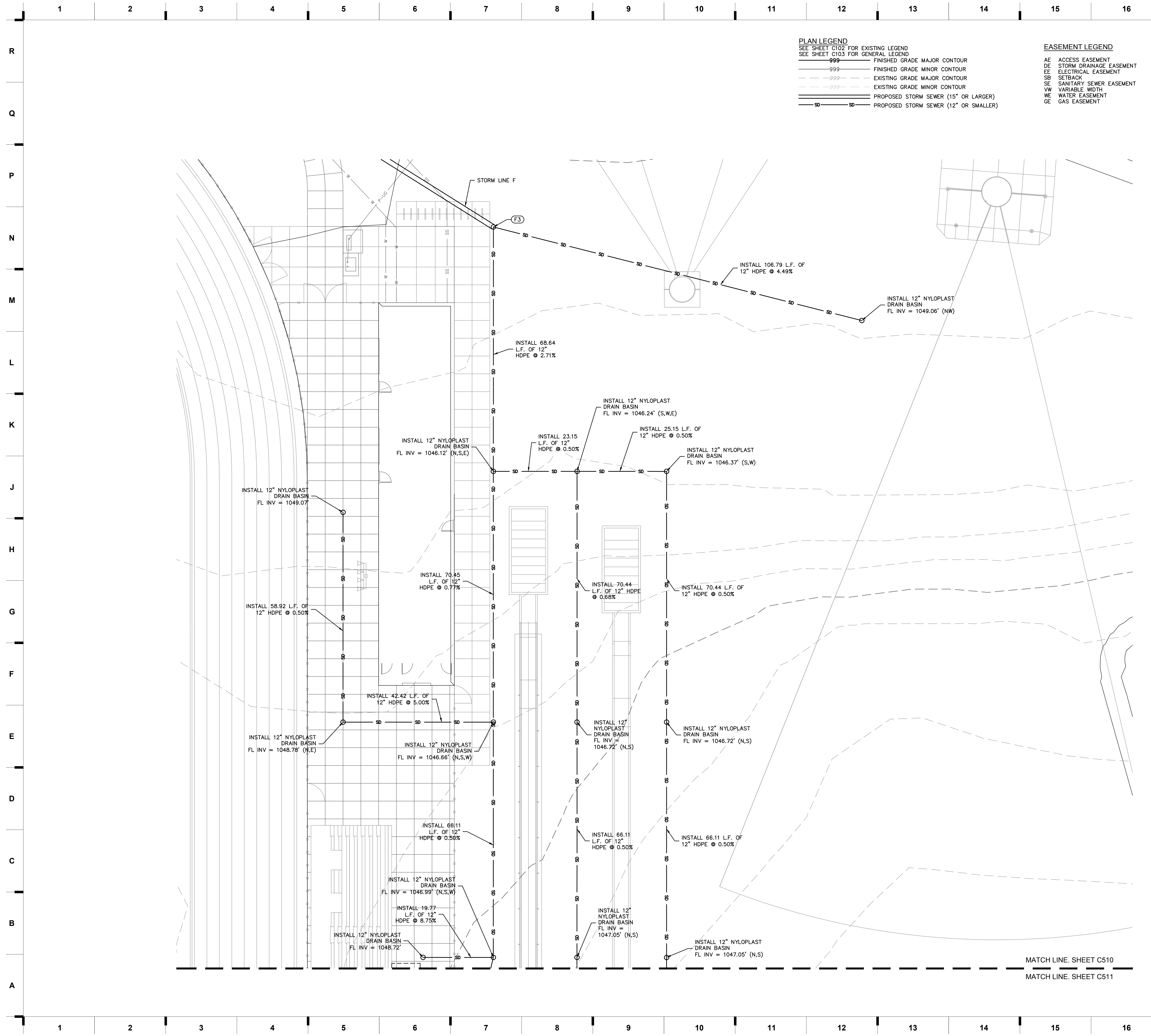


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 - 999 FINISHED GRADE MINOR CONTOUR
 - 999 EXISTING GRADE MAJOR CONTOUR
 - 999 EXISTING GRADE MINOR CONTOUR
 - PROPOSED STORM SEWER (15" OR LARGER)
 - SD PROPOSED STORM SEWER (12" OR SMALLER)

- EASEMENT LEGEND**
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 - EE ELECTRICAL EASEMENT
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NOTE
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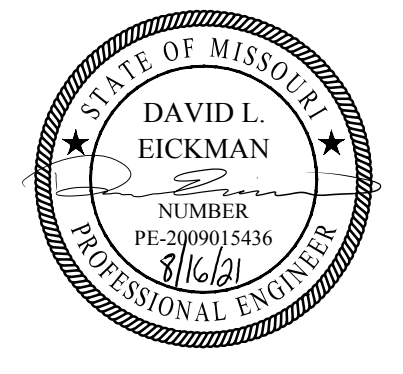
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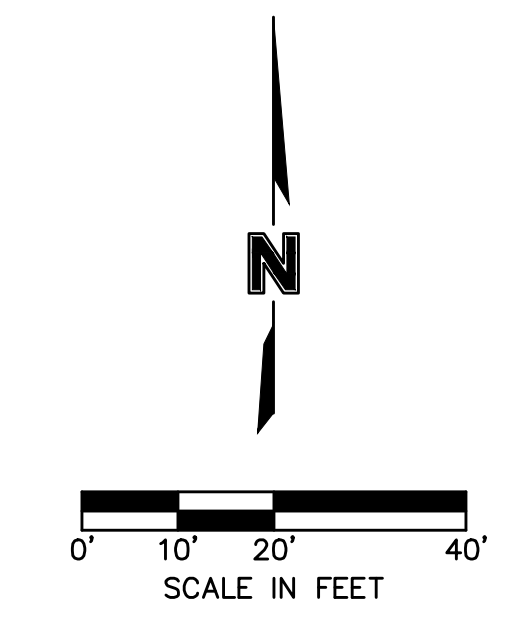
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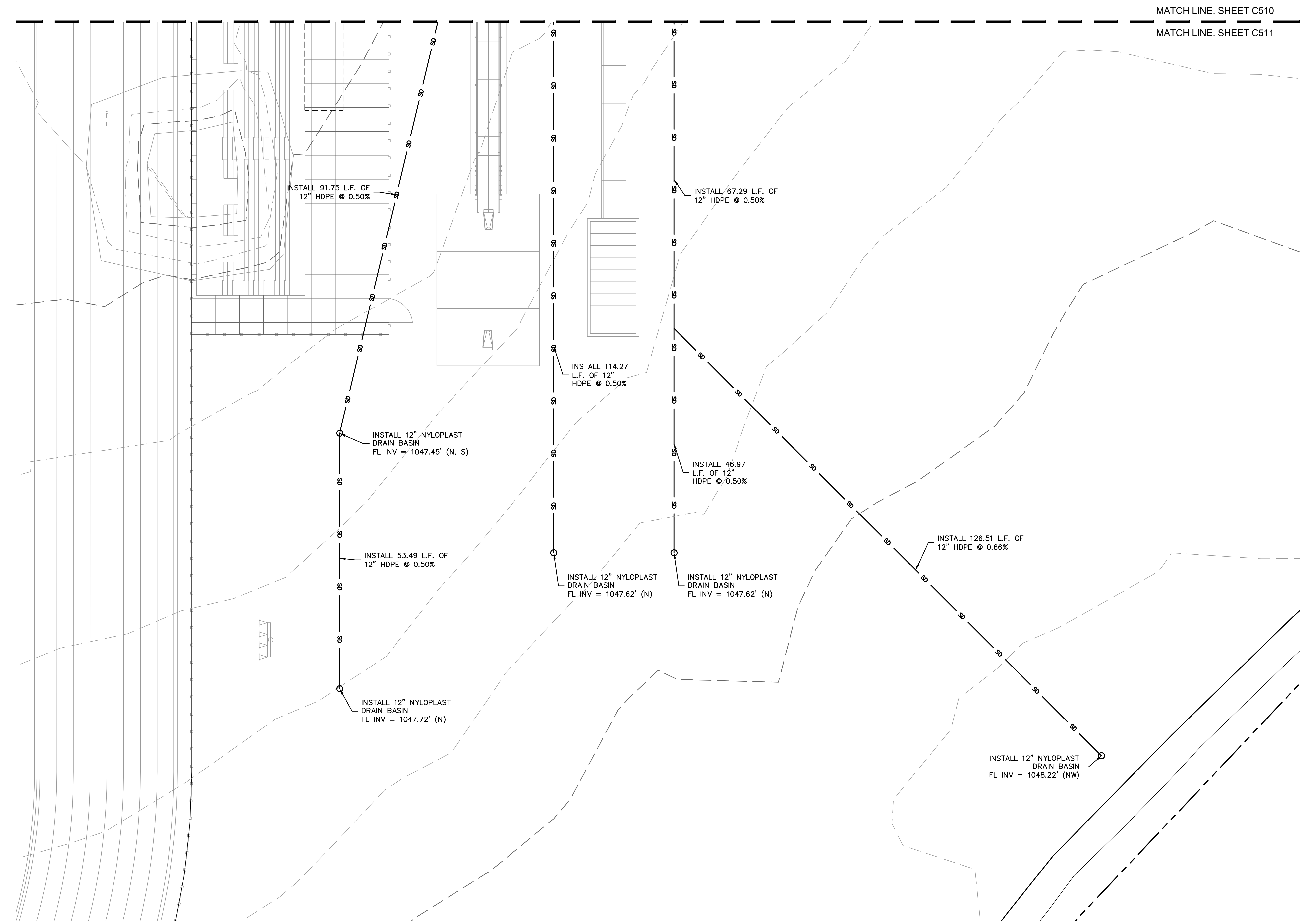
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NOTE
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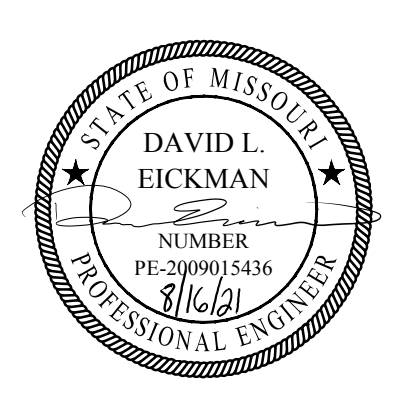
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SITE DEVELOPMENT PACKAGE

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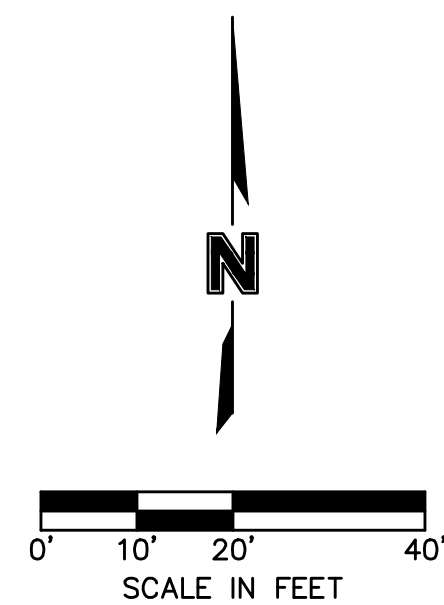
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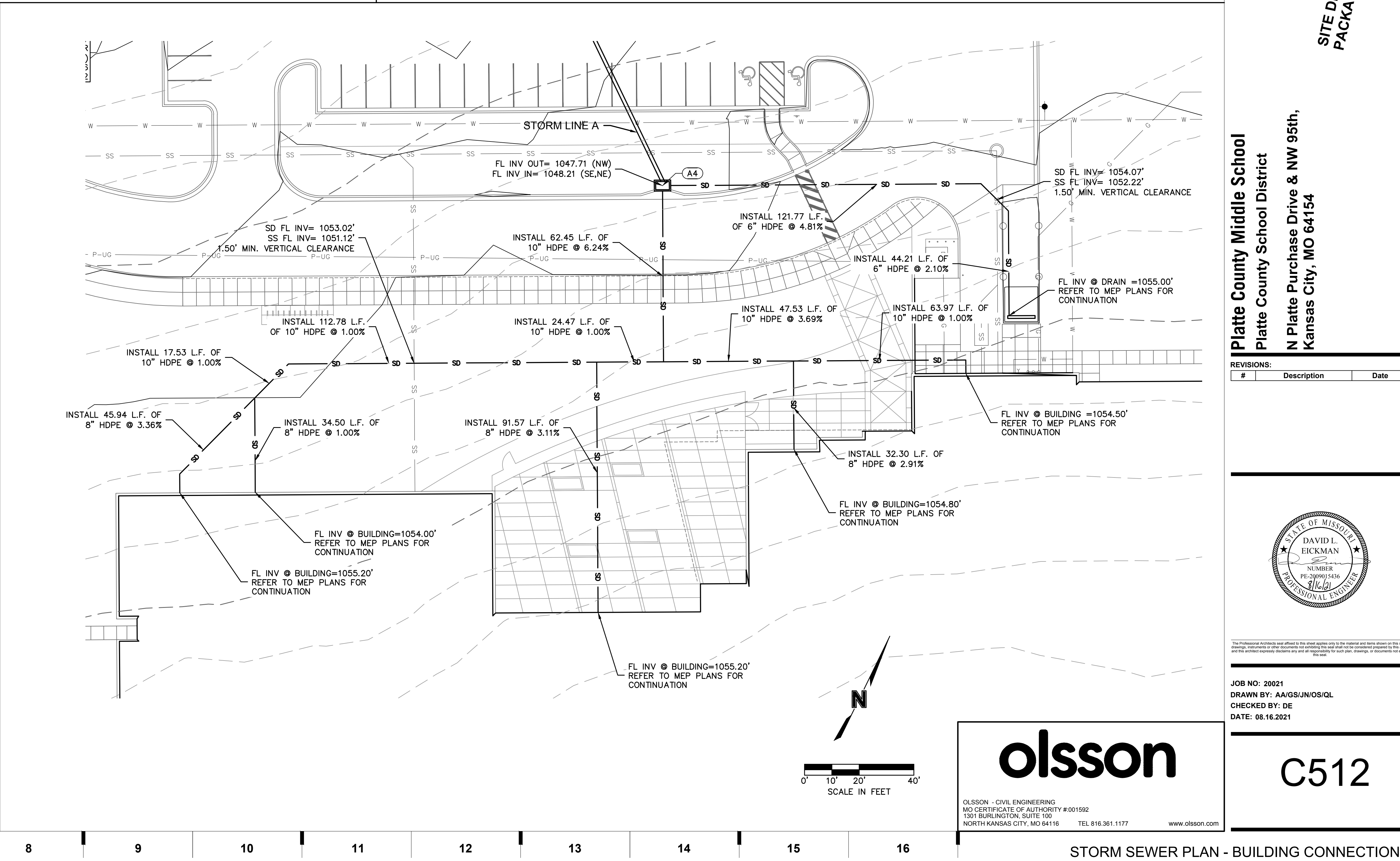
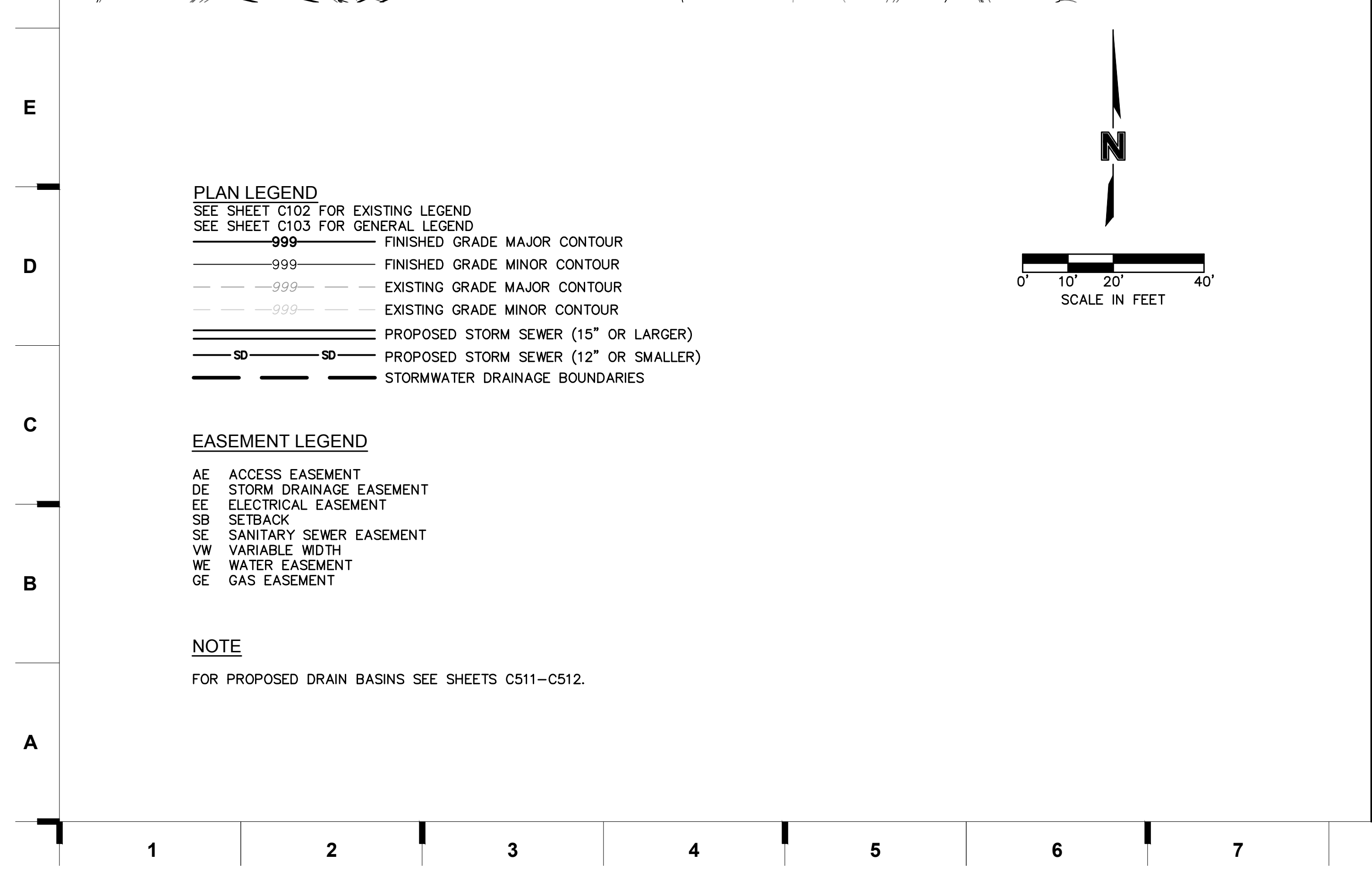
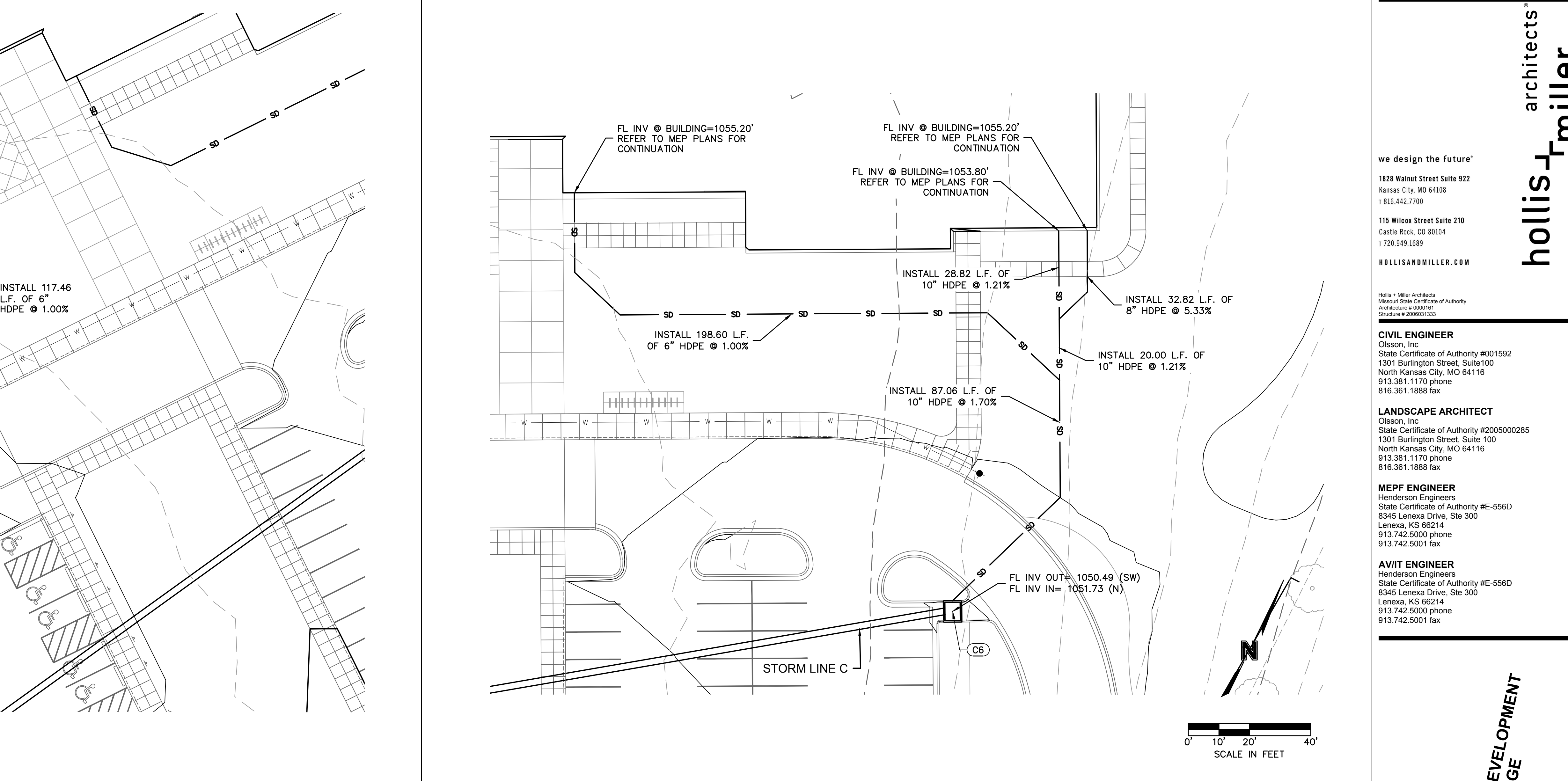
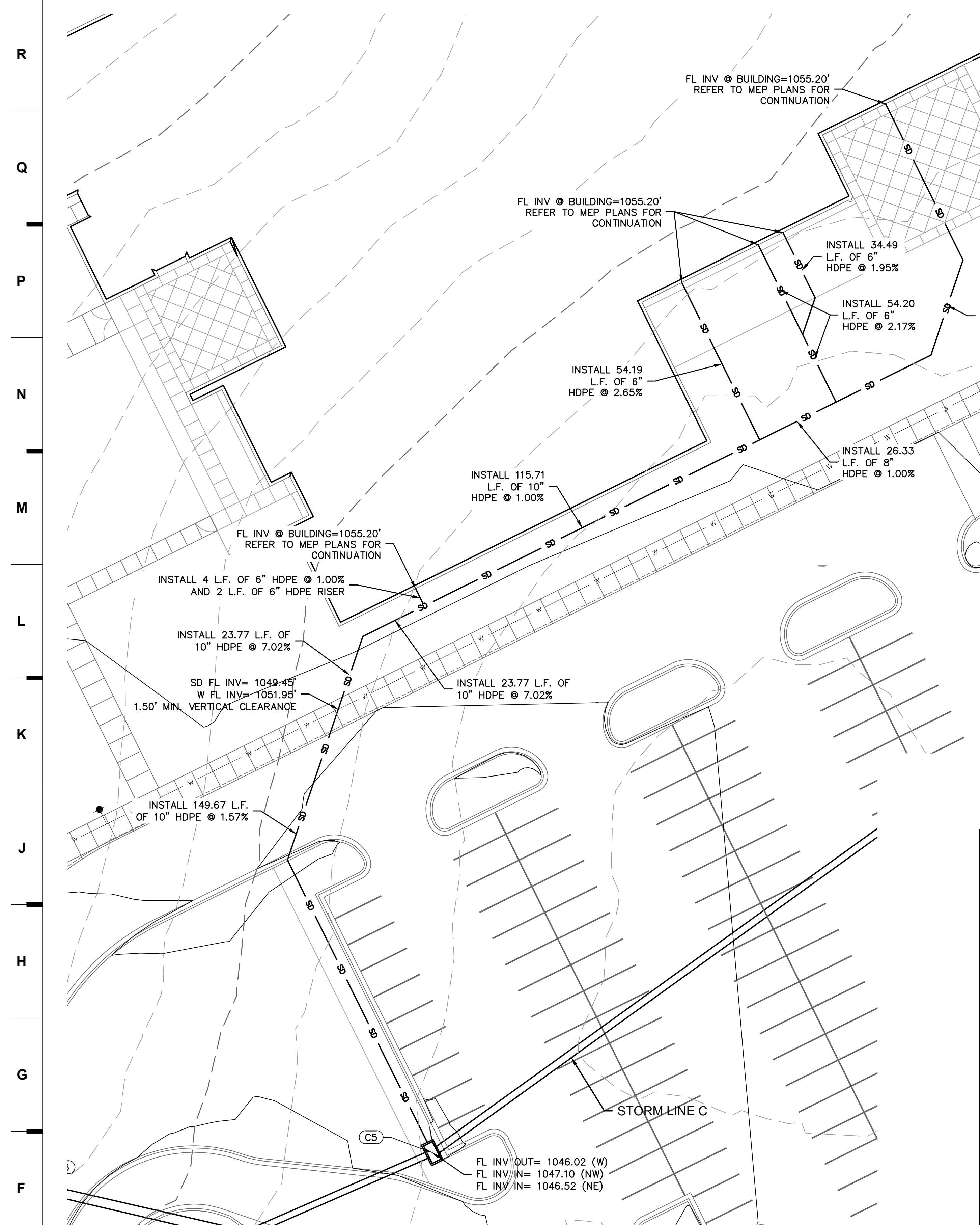
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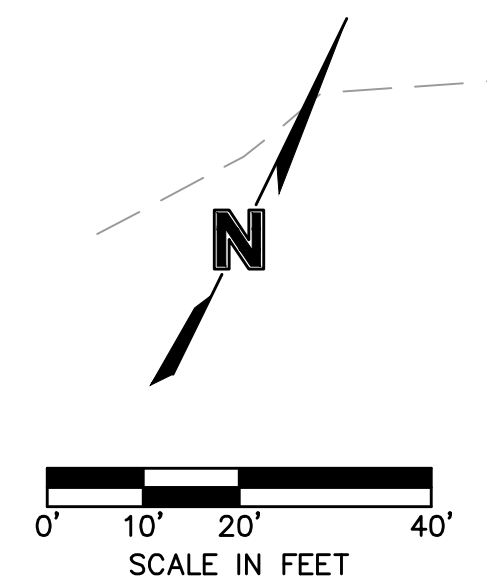
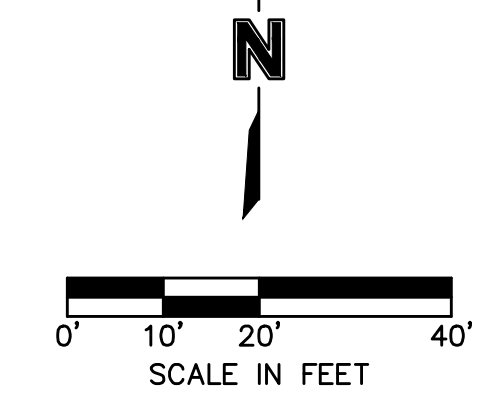
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NOTE
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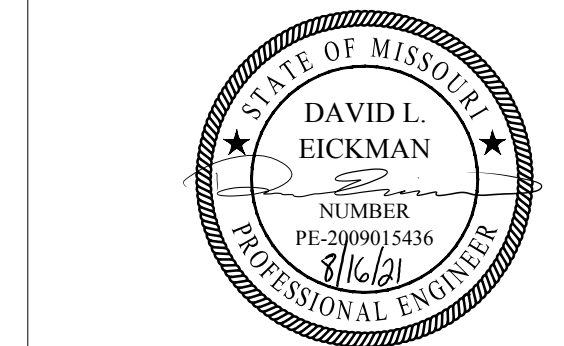
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Inlet Design Table						
10 Year Return Frequency						
Inlet ID	Captured Flow	Bypass Flow	Inlet Efficiency (Note 2)	Gutter Depth	Gutter Spread	Ponding Depth
	(cfs)	(cfs)	(%)	(ft)	(ft)	(ft)
A2	6.58	0.00	100.00%	---	---	---
A3	3.53	0.00	100.00%	---	---	---
A4	2.48	0.00	100.00%	---	---	---
B2	4.90	1.17	80.70%	---	---	---
B3	1.54	0.00	100.00%	---	---	---
C2	6.23	0.00	100.00%	---	---	---
C3	5.40	0.00	100.00%	---	---	---
C4	6.18	0.00	100.00%	---	---	---
C5	9.44	0.00	100.00%	---	---	---
C6	7.43	0.00	100.00%	---	---	---
D1	2.17	0.00	100.00%	---	---	---
E2	5.40	0.00	100.00%	---	---	---
E3	2.87	0.38	88.19%	---	---	---
E4	1.93	0.11	94.57%	---	---	---
E5	3.13	0.50	86.26%	---	---	---
F1	1.93	0.00	100.00%	---	---	---
G2	2.26	0.00	100.00%	---	---	---
G3	16.10	0.00	100.00%	---	---	0.39
H2	4.47	0.00	100.00%	---	---	0.17

Notes:
 1. Inlet capacity at sag location has been reduced by a clogging factor of 0.80, reducing theoretical Both theoretical capacity and reduced capacity are shown.
 2. Inlet efficiency shown in the tables is Captured Flow/Total Flow, denoting the actual percentage

Drainage Area Design Table						
10 Year Return Frequency						
Inlet ID	Drainage Area	C	Tc	i	K	Peak Flow
	(ac)		(min)	(in/hr)		(cfs)
A2	0.98	0.75	5.00	7.35	1.00	5.40
A3	0.64	0.75	5.00	7.35	1.00	3.53
A4	0.45	0.75	5.00	7.35	1.00	2.48
B2	1.10	0.75	5.00	7.35	1.00	6.07
B3	0.28	0.75	5.00	7.35	1.00	1.54
C2	1.13	0.75	5.00	7.35	1.00	6.23
C3	0.98	0.75	5.00	7.35	1.00	5.40
C4	1.12	0.75	5.00	7.35	1.00	6.18
C5	2.23	0.75	12.19	5.65	1.00	9.44
C6	1.68	0.75	10.89	5.89	1.00	7.43
D1	0.49	0.75	10.89	5.89	1.00	2.17
E2	0.91	0.75	5.00	7.35	1.00	5.02
E3	0.57	0.75	5.00	7.35	1.00	3.14
E4	0.37	0.75	5.00	7.35	1.00	2.04
E5	4.32	0.60	126.00	1.40	1.00	3.63
F1	0.35	0.75	5.00	7.35	1.00	1.93
G2	0.41	0.75	5.00	7.35	1.00	2.26
G3	7.30	0.30	5.00	7.35	1.00	16.10
H2	1.52	0.40	5.00	7.35	1.00	4.47

Storm Sewer Design Calculation Table													
10 Year Return Frequency													
Upstream Structure	Downstream Structure	Length (ft)	Invert (ft)	Downstream Invert (ft)	Slope (%)	Diameter (in)	Manning's n	Total Flow (cfs)	Velocity (ft/s)	Capacity (cfs)	Flow Depth (ft)	Upstream Struct. HGL (ft)	Upstream Top Elev. (ft)
A2	A1	43.51	1038.90	1037.38	3.49	18	0.013	17.82	10.16	19.63	1.45	1040.35	1049.14
A3	A2	46.45	1045.29	1042.04	7.00	18	0.013	11.24	10.94	27.78	1.28	1046.57	1051.97
A4	A3	166.34	1047.71	1045.80	1.15	15	0.013	7.71	6.28	6.92	1.25	1049.42	1057.59
B2	B1	103.52	1044.04	1035.24	8.50	15	0.013	6.44	5.74	18.83	1.02	1045.06	1051.78
B3	B2	99.98	1047.04	1044.54	2.50	15	0.013	1.54	3.31	10.21	0.49	1047.53	1052.85
C2	C1	96.23	1038.92	1038.00	0.96	36	0.013	57.88	9.02	65.21	2.46	1041.38	1052.64
C3	C2	273.64	1043.91	1041.23	0.98	36	0.013	37.31	8.57	66.00	1.99	1045.90	1054.60
C4	C3	71.41	1045.03	1044.41	0.87	30	0.013	31.91	8.30	38.21	1.92	1046.95	1053.21
C5	C4	62.00	1046.02	1045.53	0.79	24	0.013	23.56	7.50	20.11	2.00	1048.20	1054.36
C6	C5	449.47	1050.49	1046.52	0.88	24	0.013	9.88	4.30	21.26	1.12	1051.61	1056.37
D1	C4	41.81	1048.99	1046.28	6.48	15	0.013	2.17	3.53	16.44	0.59	1049.58	1054.84
E2	E1	55.93	1025.34	1025.00	0.61	24	0.013	13.83	5.56	17.63	1.34	1026.68	1032.54
E3	E2	354.30	1031.44	1025.84	1.58	18	0.013	8.43	6.93	13.20	1.12	1032.56	1042.83
E4	E3	370.29	1037.61	1031.94	1.53	18	0.013	5.56	6.01	12.99	0.91	1038.52	1050.34
E5	E4	77.20	1038.88	1038.11	1.00	18	0.013	3.63	4.83	10.49	0.73	1039.61	1053.52
F1	C2	163.65	1041.05	1039.92	0.69	24	0.013	14.34	6.06	18.79	1.36	1042.41	1053.83
F2	F1	94.17	1042.50	1041.65	0.90	18	0.013	12.41	7.02	9.98	1.50	1044.47	1052.89
F3	F2	158.39	1044.26	1043.00	0.80	15	0.013	7.04	5.74	5.76	1.25	1046.58	1051.21
G2	G1	54.48	1020.27	1019.94	0.61	24	0.013	18.36	6.27	17.60	1.75	1022.02	1031.14
G3	G2	73.38	1021.21	1020.77	0.60	24	0.013	16.10	6.32	17.51	1.51	1022.72	1027.75
H2	H1	125.96	1054.10	1052.90	0.95	15	0.013	4.47	6.30	0.86	1054.96	1055.49	

Inlet Design Table						
100 Year Return Frequency						
Inlet ID	Captured Flow	Bypass Flow	Inlet Efficiency (Note 2)	Gutter Depth	Gutter Spread	Ponding Depth
	(cfs)	(cfs)	(%)	(ft)	(ft)	(ft)
A2	13.11	0.00	100.00%	---	---	---
A3	6.19	0.00	100.00%	---	---	---
A4	4.35	0.00	100.00%	---	---	---
B2	7.02	3.62	66.97%	---	---	---
B3	2.71	0.00	100.00%	---	---	---
C2	10.94	0.00	100.00%	---	---	---
C3	9.48	0.00	100.00%	---	---	---
C4	10.84	0.00	100.00%	---	---	---
C5	16.73	0.00	100.00%	---	---	---
C6	13.14	0.00	100.00%	---	---	---
D1	3.83	0.00	100.00%	---	---	---
E2	10.29	0.00	100.00%	---	---	---
E3	4.51	1.49	75.24%	---	---	---
E4	3.10	0.48	86.52%	---	---	---
E5	4.92	1.95	71.64%	---	---	---
F1	3.39	0.00	100.00%	---	---	---
G2	3.97	0.00	100.00%	---	---	---
G3	18.67	9.59	66.06%	---	---	0.34
H2	7.85	0.00	100.00%	---	---	0.24

Notes:
 1. Inlet capacity at sag location has been reduced by a clogging factor of 0.80, reducing theoretical Both theoretical capacity and reduced capacity are shown.
 2. Inlet efficiency shown in the tables is Captured Flow/Total Flow, denoting the actual percentage

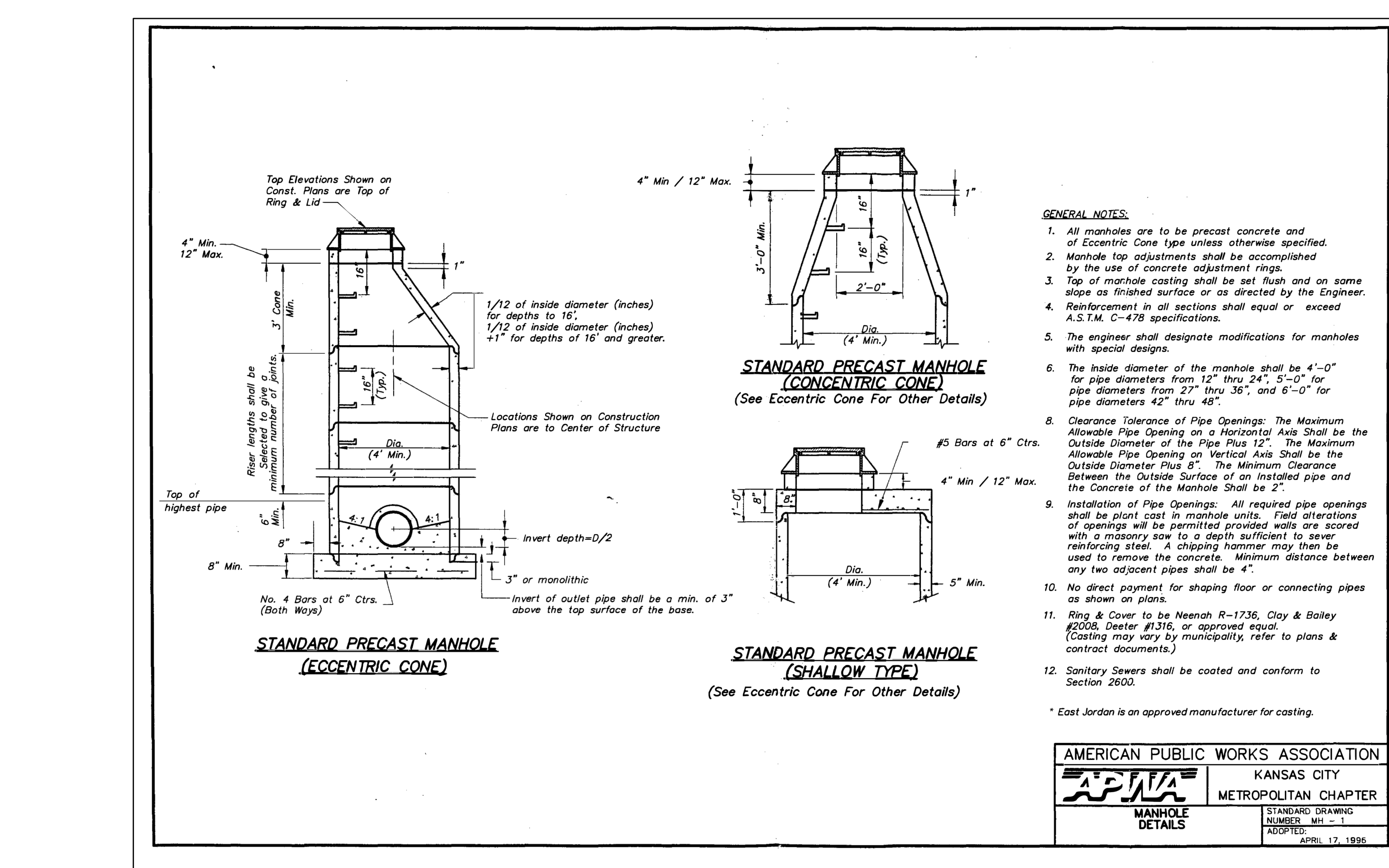
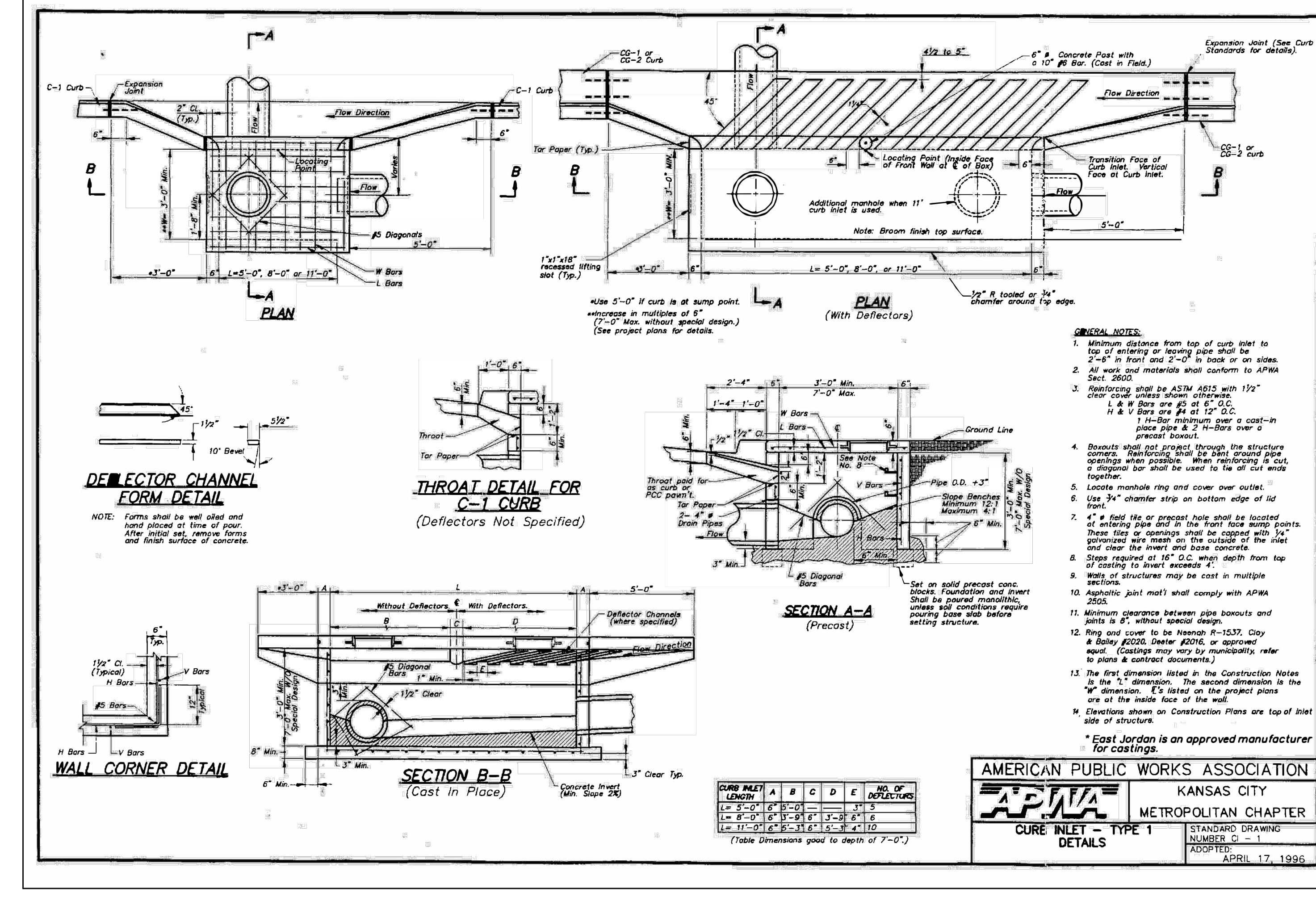
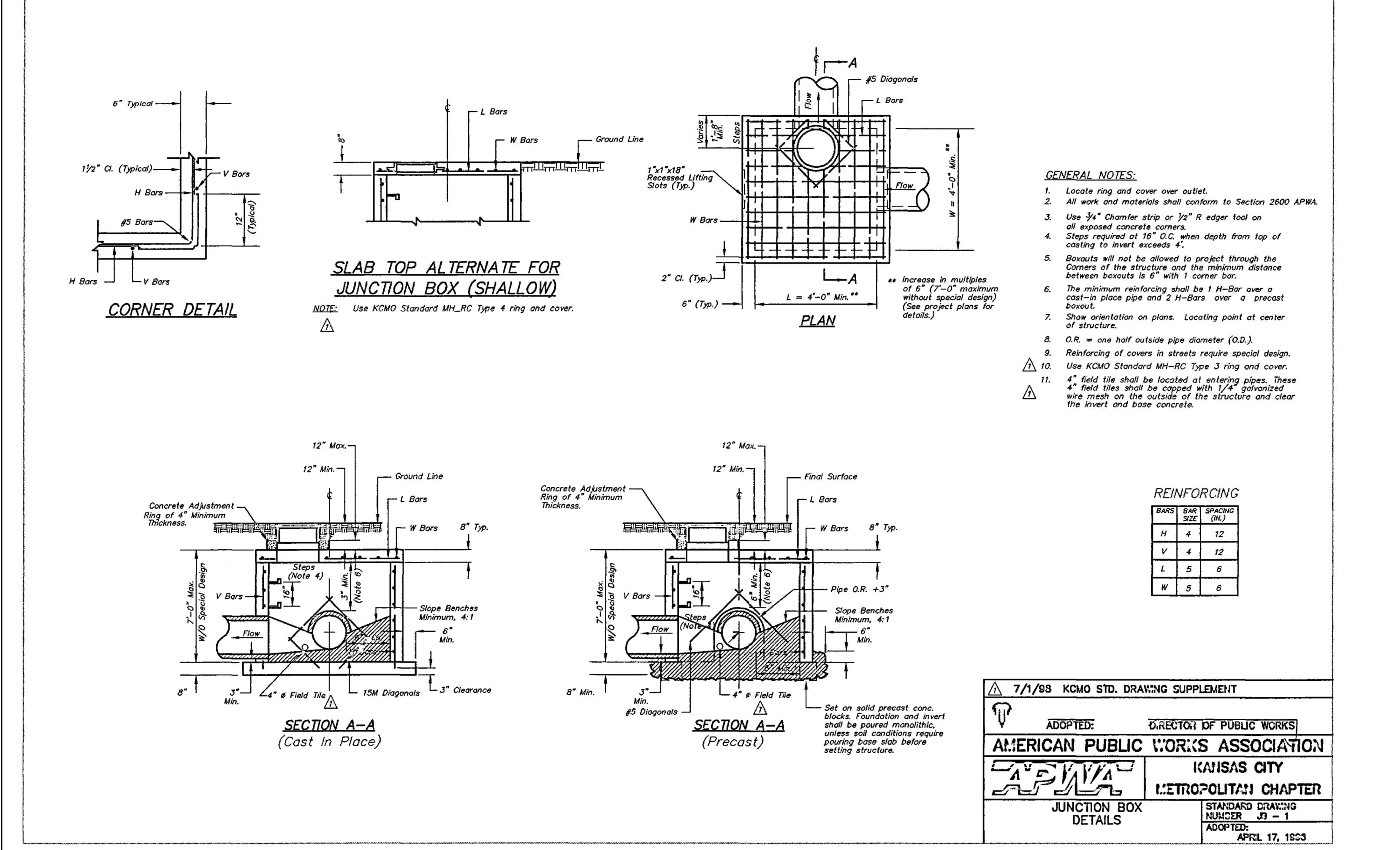
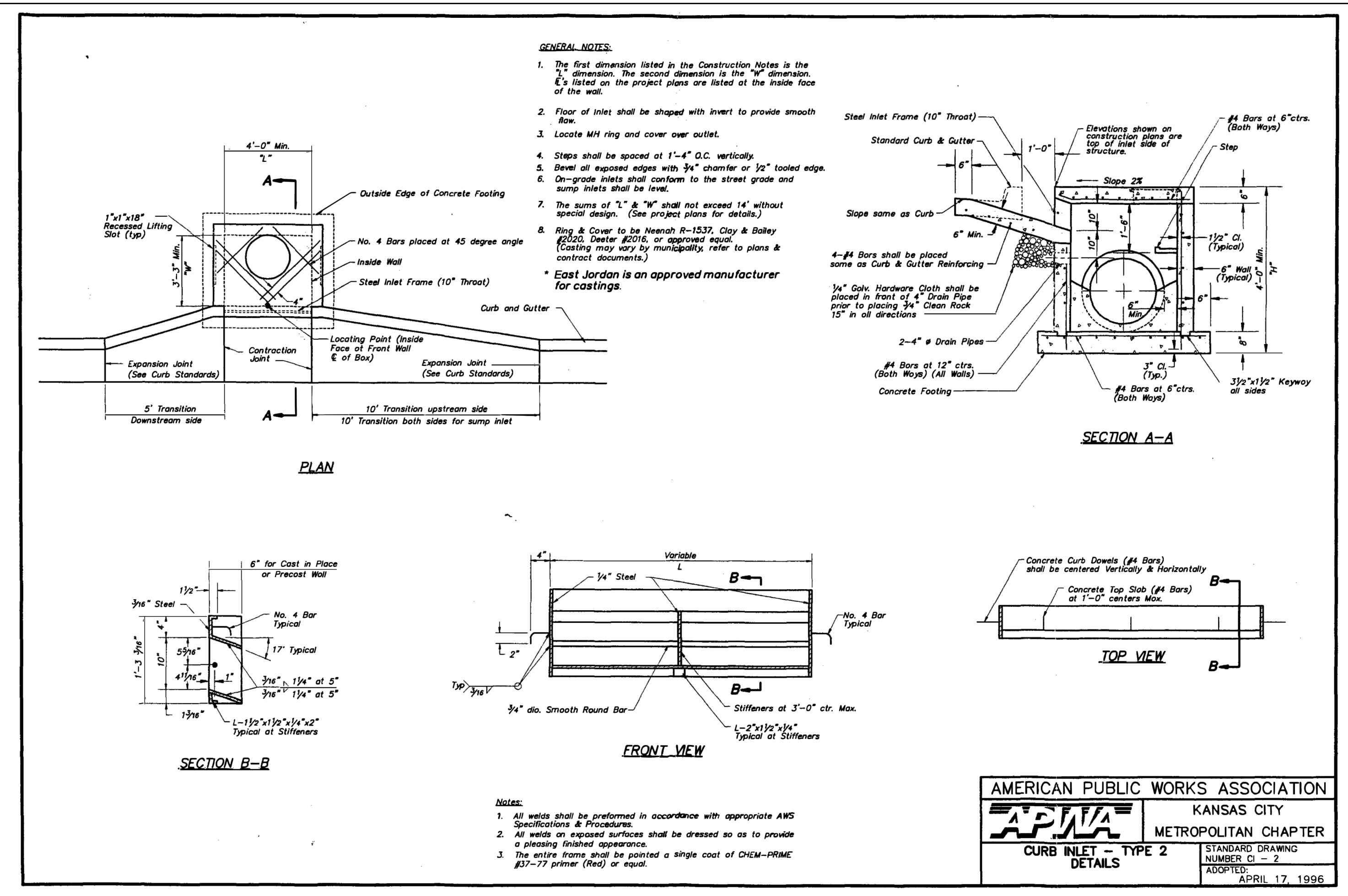
Drainage Area Design Table						
100 Year Return Frequency						
Inlet ID	Drainage Area	C	Tc	i	K	Peak Flow
	(ac)		(min)	(in/hr)		(cfs)
A2	0.98	0.75	5.00	10.32	1.25	9.48
A3	0.64	0.75	5.00	10.32	1.25	6.19
A4	0.45	0.75	5.00	10.32	1.25	4.35
B2	1.10	0.75	5.00	10.32	1.25	10.65
B3	0.28	0.75	5.00	10.32	1.25	2.71
C2	1.13	0.75	5.00	10.32	1.25	10.94
C3	0.98	0.75	5.00	10.32	1.25	9.48
C4	1.12	0.75	5.00	10.32	1.25	10.84
C5	2.23	0.75	12.19	8.00	1.25	16.73
C6	1.68	0.75	10.89	8.34	1.25	13.14
D1	0.49	0.75	10.89	8.34	1.25	3.83
E2	0.91	0.75	5.00	10.32	1.25	8.81
E3	0.57	0.75	5.00	10.32	1.25	5.52
E4	0.37	0.75	5.00	10.32	1.25	3.58
E5	4.32	0.60	126.00	2.12	1.25	6.87
F1	0.35	0.75	5.00	10.32	1.25	3.39
G2	0.41	0.75	5.00	10.32	1.25	3.97
G3	7.30	0.30	5.00	10.32	1.25	28.26
H2	1.52	0.40	5.00	10.32	1.25	7.85

Storm Sewer Design Calculation Table													
100 Year Return Frequency													
Upstream Structure	Downstream Structure	Length (ft)	Invert (ft)	Downstream Invert (ft)	Slope (%)	Diameter (in)	Manning's n	Total Flow (cfs)	Velocity (ft/s)	Capacity (cfs)	Flow Depth (ft)	Upstream Struct. HGL (ft)	Upstream Top Elev. (ft)
A2	A1	43.51	1038.90	1037.38	3.49	18	0.013	31.80	18.00	19.63	1.50	1042.77	1049.14
A3	A2	46.45	1045.29	1042.04	7.00	18	0.013	18.69	10.62	27.78	1.46	1046.75	1051.97
A4	A3	166.34	1047.71	1045.80	1.15	15	0.013	12.50	10.19	6.92	1.25	1053.29	1057.59
B2	B1	103.52	1044.04	1035.24	8.50	15	0.013	9.73	8.20	18.83	1.18	1045.22	1051.78
B3	B2	99.98	1047.04	1044.54	2.50	15	0.013	2.71	4.06	10.21	0.66	1047.70	1052.85
C2	C1	96.23	1038.92	1038.00	0.96	36	0.013	100.33	14.27	65.21	3.00	1043.01	1052.64
C3	C2	273.64	1043.91	1041.23	0.98	36	0.013	64.45	9.54	66.00	2.58	1046.49	1054.60
C4	C3	71.41	1045.03	1044.41	0.87	30	0.013	54.97	11.20	38.21	2.50	1048.24	1053.21
C5	C4	62.00	1046.02	1045.53	0.79	24	0.013	40.30	12.83	20.11	2.00	1050.99	1054.36
C6	C5	449.47	1050.49	1046.52	0.88	24	0.013	16.96	5.40	21.26	2.00	1054.28	1056.37
D1	C4	41.81	1048.99	1046.28	6.48	15	0.013	3.83	3.90	16.44	0.79	1049.78	1054.84
E2	E1	55.93	1025.34	1025.00	0.61	24	0.013	24.77	8.18	17.63	2.00	1027.54	1032.54
E3	E2	354.30	1031.44	1025.84	1.58	18	0.013	14.48	8.19	13.20	1.50	1034.67	1042.83
E4	E3	370.29	1037.61	1031.94	1.53	18	0.013	9.97	6.07	12.99	1.22	1038.83	1050.34
E5	E4	77.20	1038.88	1038.11	1.00	18	0.013	6.87	5.87	10.49	1.01	1039.89	1053.52
F1	C2	163.65	1041.05	1039.92	0.69	24	0.013	28.94	7.94	18.79	2.00	1046.25	1053.83
F2	F1	94.17	1042.50	1041.65	0.90	18	0.013	21.55	12.20	9.98	1.50	1050.51	1052.89
F3	F2	158.39	1044.26	1043.00	0.80	15	0.013	12.51	10.20	5.76	1.25	1057.15	1051.21
G2	G1	54.48	1020.27	1019.94	0.61	24	0.013	22.64	7.45	17.60	2.00	1022.34	1031.14
G3	G2	73.38	1021.21	1020.77	0.60	24	0.013	18.67	6.27	17.51	1.80	1023.01	1027.75
H2	H1	125.96	1054.10	1052.90	0.95	15	0.013	7.85	6.61	6.30	1.25	1055.86	1055.49



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SITE DEVELOPMENT PACKAGE

Platte County Middle School
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 N Platte Purchase Drive & NW 95th,
 Kansas City, MO 64154

REVISIONS:

#	Description	Date

AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METROPOLITAN CHAPTER
MANHOLE
DETAILS
 STANDARD DRAWING NUMBER MH-1
 ADOPTED: APRIL 17, 1995

DAVID L. EICKMAN
 MISSOURI REGISTERED PROFESSIONAL ENGINEER
 NUMBER: 3449
 EXPIRES: 12/31/2021

JOB NO: 20021
 DRAWN BY: AAGS/JUN/SOL
 CHECKED BY: DE
 DATE: 08.16.2021

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C514

STORM SEWER DETAILS

NYLOPLAST 12" DRAIN BASIN: 2812AG __ X

(1, 2) INTEGRATED DUCTILE IRON FRAME & GRATE TO MATCH BASIN O.D.

(3) VARIABLE INVERT HEIGHTS AVAILABLE (ACCORDING TO PLANS/TAKE OFF)

MINIMUM PIPE BURIAL DEPTH PER PIPE MANUFACTURER RECOMMENDATION (MIN. MANUFACTURING REQ. SAME AS MIN. SUMP)

(5) ADAPTER ANGLES VARIABLE 0° - 360° ACCORDING TO PLANS

TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS. SEE DRAWING NO. 7001-110-111 FOR NON TRAFFIC INSTALLATION.

(3) VARIABLE SUMP DEPTH ACCORDING TO PLANS (6" MIN. BASED ON MANUFACTURING REQ.)

4" MIN

WATERTIGHT JOINT (CORRUGATED HDPE SHOWN)

(4) VARIOUS TYPES OF INLET & OUTLET ADAPTERS AVAILABLE:
 4" - 12" FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, ADS/HANCOR SINGLE WALL), N-12 HP PVC SEWER (EX: SDR 35), PVC DWV (EX: SCH 40), PVC C900/C905, CORRUGATED & RIBBED PVC

THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.

GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1299CGP	7001-110-202
STANDARD	MEETS H-20	1299CGS	7001-110-203
SOLID COVER	MEETS H-20	1299CGC	7001-110-204
PEDESTRIAN BRONZE	N/A	1299GCB	7001-110-205
DOME	N/A	1299CGD	7001-110-206
DROP IN GRATE	LIGHT DUTY	1201DI	7001-110-021

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
 2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS.
 4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP & PVC SEWER.
 5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

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DRAWN BY	EBC	MATERIAL	3130 VERONA AVE BURFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE	03-29-06	PROJECT NO./NAME	
REVISED BY	NMH	TITLE	12 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL
DATE	03-11-16	DWG NO.	7001-110-189
DWG SIZE	A	SCALE	1:20
SHEET	1 OF 1	REV	E

WHEN ARE INLINE DRAINS USED?

2708AG __ X
2710AG __ X
2712AG __ X
2715AG __ X
2718AG __ X
2724AG __ X
2730AG __ X

1: TO ENTER AN EXISTING LINE USING A TEE & RISER

2: AT THE BEGINNING OF A DRAIN LINE USING AN ELBOW & RISER

TYPICAL INSTALLATIONS

TYPICAL INSTALLATION OF NYLOPLAST DRAIN BASIN AND INLINE DRAIN

(3) VARIABLE ELEVATION

10" INLINE DRAIN

12" DRAIN BASIN

(2) INLET & OUTLET ADAPTERS CAN BE PUT ON ANY ANGLE

10" INLINE DRAIN

WATERTIGHT ADAPTERS AVAILABLE FOR MOST COMMON PLASTIC PIPING SYSTEMS

WHEN ARE DRAIN BASINS USED?

1: TO CHANGE ELEVATION

2: TO CHANGE PIPE DIAMETER

3: TO CHANGE PIPE TYPE

4: FOR SHALLOW APPLICATIONS

5: TO CHANGE DIRECTION

8"

6"

CORRUGATED HDPE PIPE

SMOOTH WALL PVC

1 - STRUCTURES & ADAPTERS AVAILABLE IN SIZES 8" - 36"
 2 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°, TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012
 3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065
 4 - REDUCING CONES DOWN TO 30° DIAMETER WILL BE REQUIRED FOR 36" DRAIN BASINS.

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DATE	8-10-00	PROJECT NO./NAME	
REVISED BY	NMH	TITLE	8 IN - 36 IN TYPICAL INSTALLATION OPTIONS
DATE	11-2-18	DWG NO.	7001-110-042
DWG SIZE	A	SCALE	1:40
SHEET	1 OF 1	REV	E

1299CGD

APPROX. DRAIN AREA = 82.87 SQ IN
APPROX. WEIGHT = 18.50 LBS

SECTION A-A

5.00

12 IN DOME GRATE

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DRAWN BY	EBC	MATERIAL	DUCTILE IRON
DATE	3-8-06	PROJECT NO./NAME	
REVISED BY	EBC	TITLE	12 IN DOME GRATE
DATE	3-8-11	DWG NO.	7001-110-206
DWG SIZE	A	SCALE	1:4
SHEET	1 OF 1	REV	D

END SECTION NOTES

- GRATE COVER DETAIL SHALL BE ADJUSTED AS NECESSARY TO FIT END SECTION PROVIDED.
- MAXIMUM OPENING THRU END SECTION SHALL BE NO GREATER THAN 6". ADJUST DETAIL AS NECESSARY.
- ALL METAL SURFACES SHALL BE HOT DIP ZINC COATED IN ACCORDANCE WITH ASTM A-123.
- USE CITY APPROVED CONCRETE THROUGHOUT.
- ALL CONCRETE AND MATERIALS USED IN THIS WORK SHALL MEET THE REQUIREMENTS OF THE GOVERNING BODY.
- REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 40 AS PER ASTM A615, AND SHALL BE BENT COLD.
- ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF ±1/8" SHALL BE PERMITTED.
- ALL LAP SPICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
- ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.
- ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
- DO NOT SCALE THESE DRAWINGS FOR DIMENSIONS OR CLEARANCES. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.

PLANVIEW

SECTION A-A

END SECTION TOE WALL WITH GRATE
NOT TO SCALE

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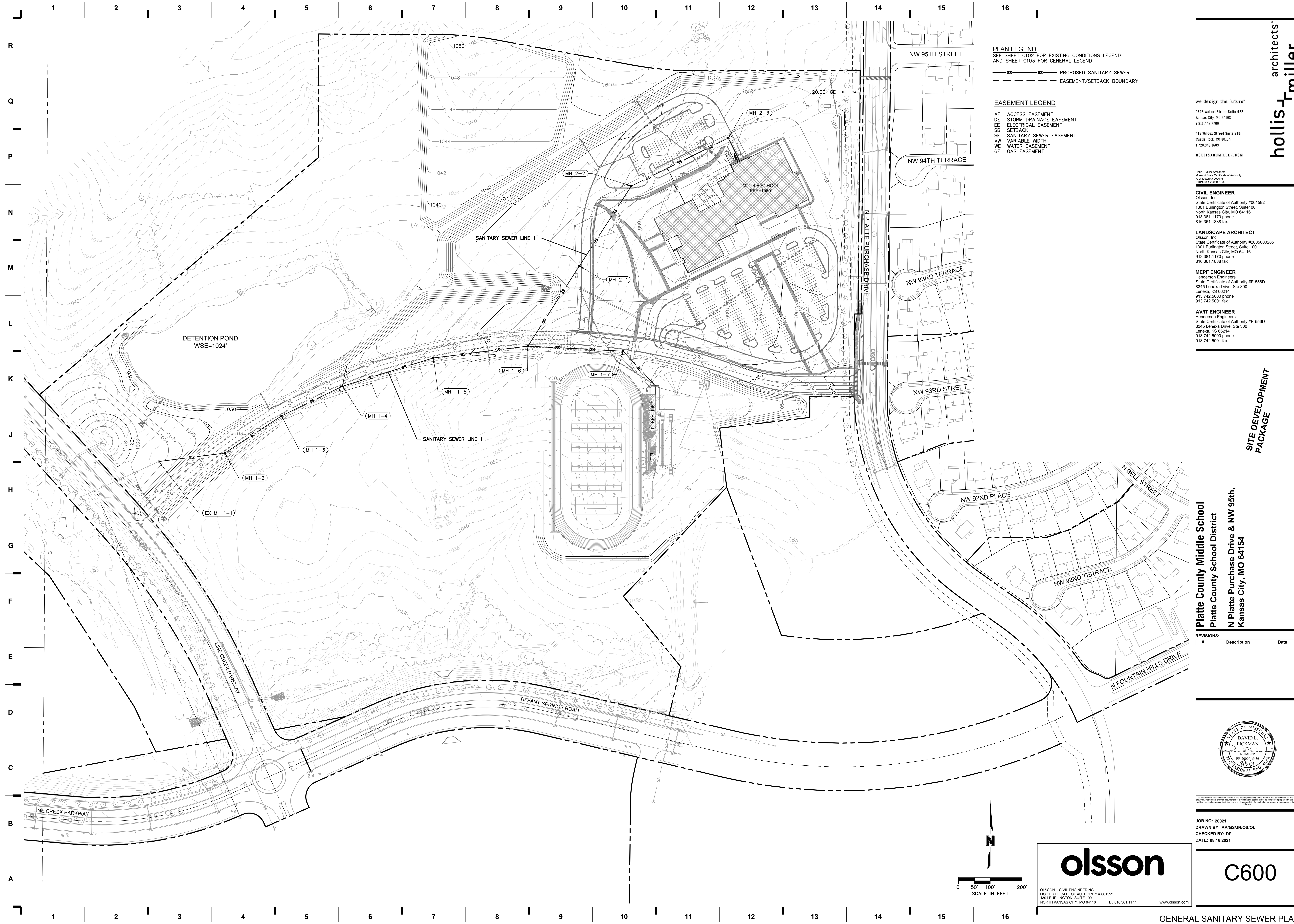
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DATE: 08.16.2021

C515

STORM SEWER DETAILS



PLAN LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND
 AND SHEET C103 FOR GENERAL LEGEND

SS — SS — PROPOSED SANITARY SEWER
 --- --- EASEMENT/SETBACK BOUNDARY

EASEMENT LEGEND

AE ACCESS EASEMENT
 DE STORM DRAINAGE EASEMENT
 EE ELECTRICAL EASEMENT
 SB SETBACK
 SE SANITARY SEWER EASEMENT
 VW VARIABLE WIDTH
 WE WATER EASEMENT
 GE GAS EASEMENT

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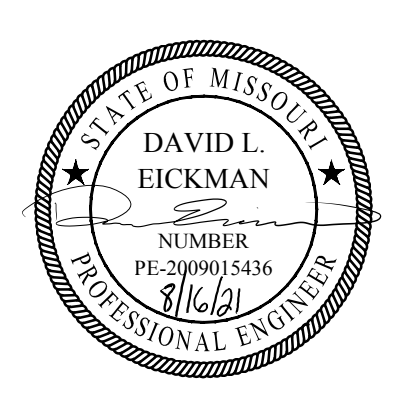
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SITE DEVELOPMENT PACKAGE

REVISIONS:

#	Description	Date



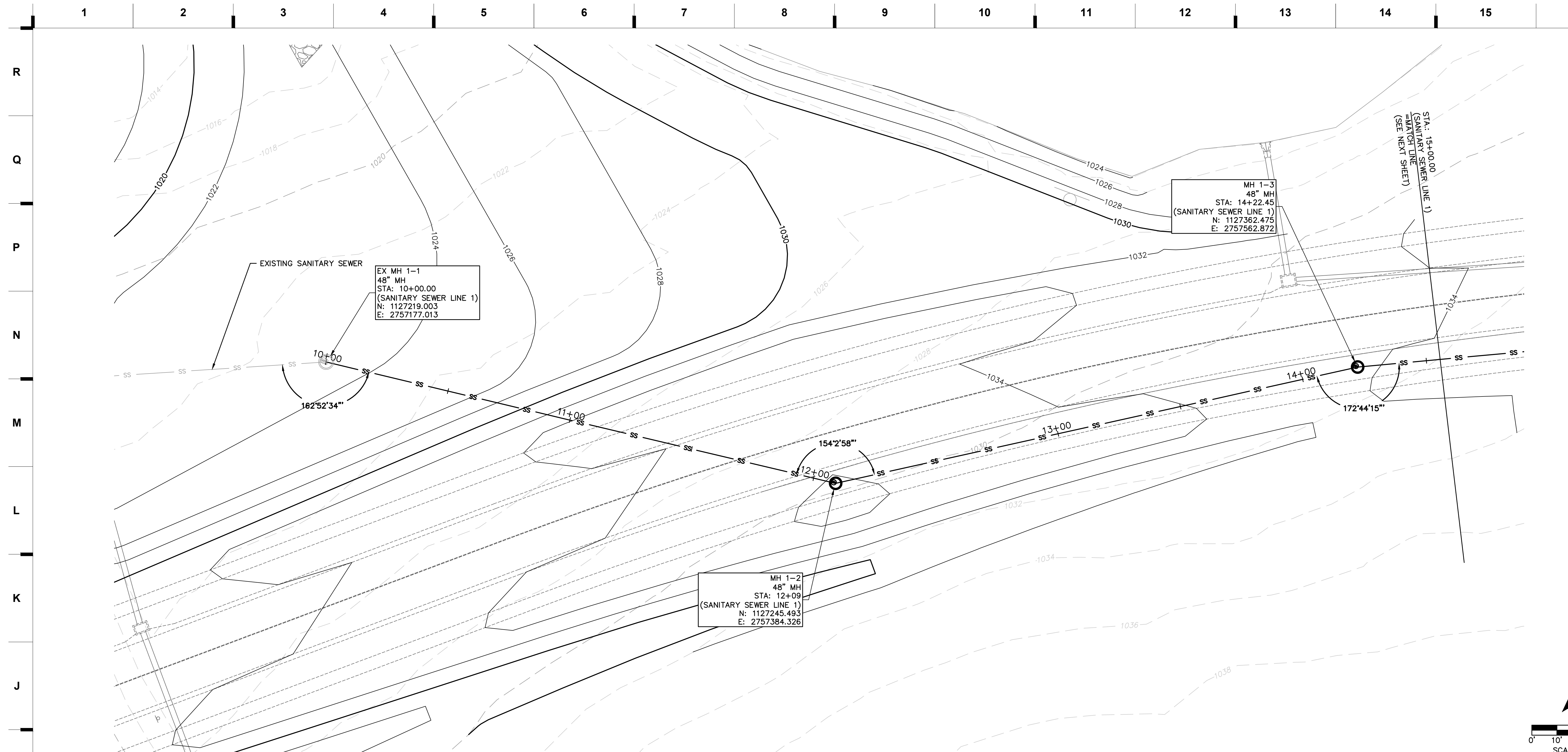
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C600

8/13/2021 10:09:55 AM



PLAN LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND
 AND SHEET C103 FOR GENERAL LEGEND

— SS — SS — PROPOSED SANITARY SEWER
 - - - - - EASEMENT/SETBACK BOUNDARY

EASEMENT LEGEND

- AE ACCESS EASEMENT
- DE STORM DRAINAGE EASEMENT
- EE ELECTRICAL EASEMENT
- SB SETBACK
- SE SANITARY SEWER EASEMENT
- VW VARIABLE WIDTH
- WE WATER EASEMENT
- GE GAS EASEMENT

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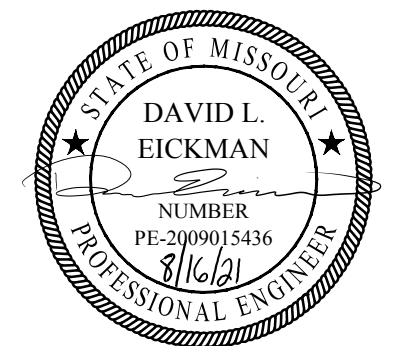
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SITE DEVELOPMENT PACKAGE

Platte County Middle School
Platte County School District
N Platte Purchase Drive & NW 95th,
Kansas City, MO 64154

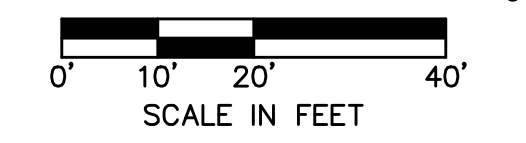
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#	Description	Date



The Professional seal and title are offered in this sheet, apply only to the original and have shown to this sheet. All drawings, specifications or other documents not attached to and not to be considered part of the contract. The architect and engineer assume no liability for such plan, drawings, or documents not attached to this sheet.

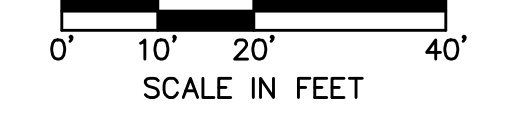
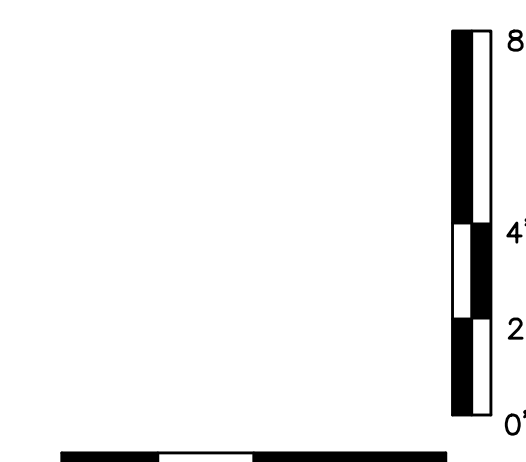
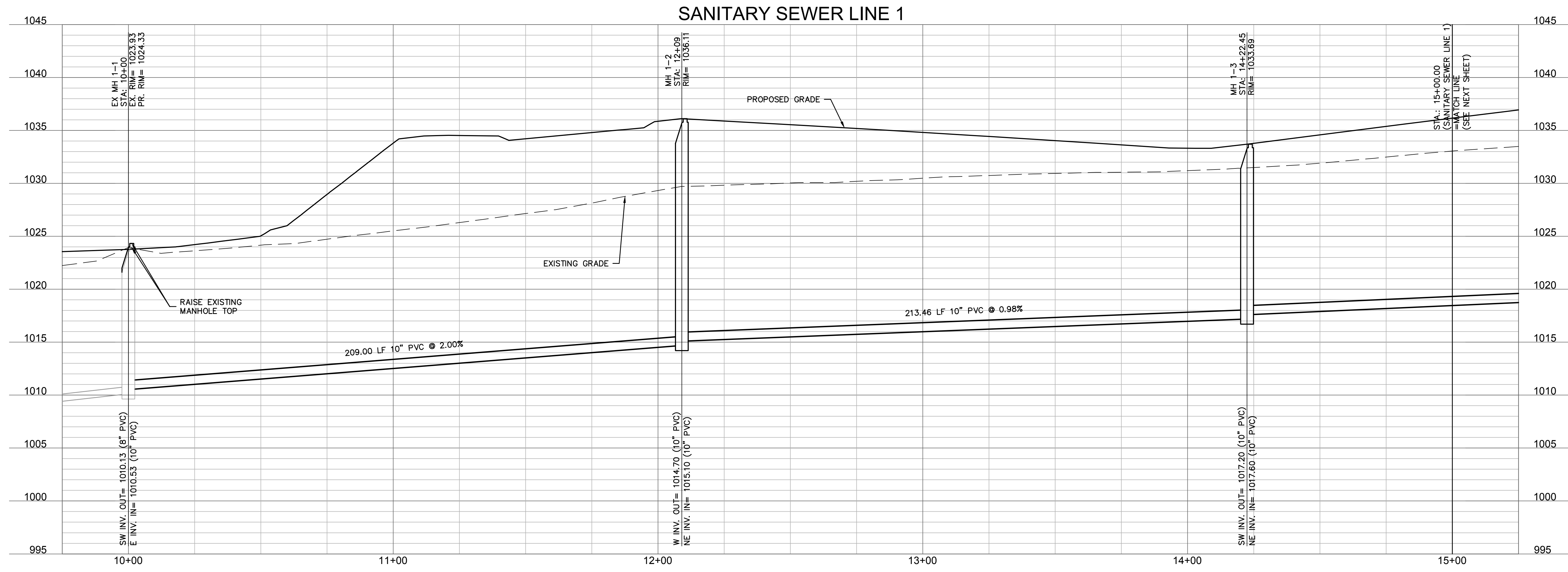
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 DRAWN BY: AAGS/JUN/S/O/L
 CHECKED BY: DE
 DATE: 08.16.2021

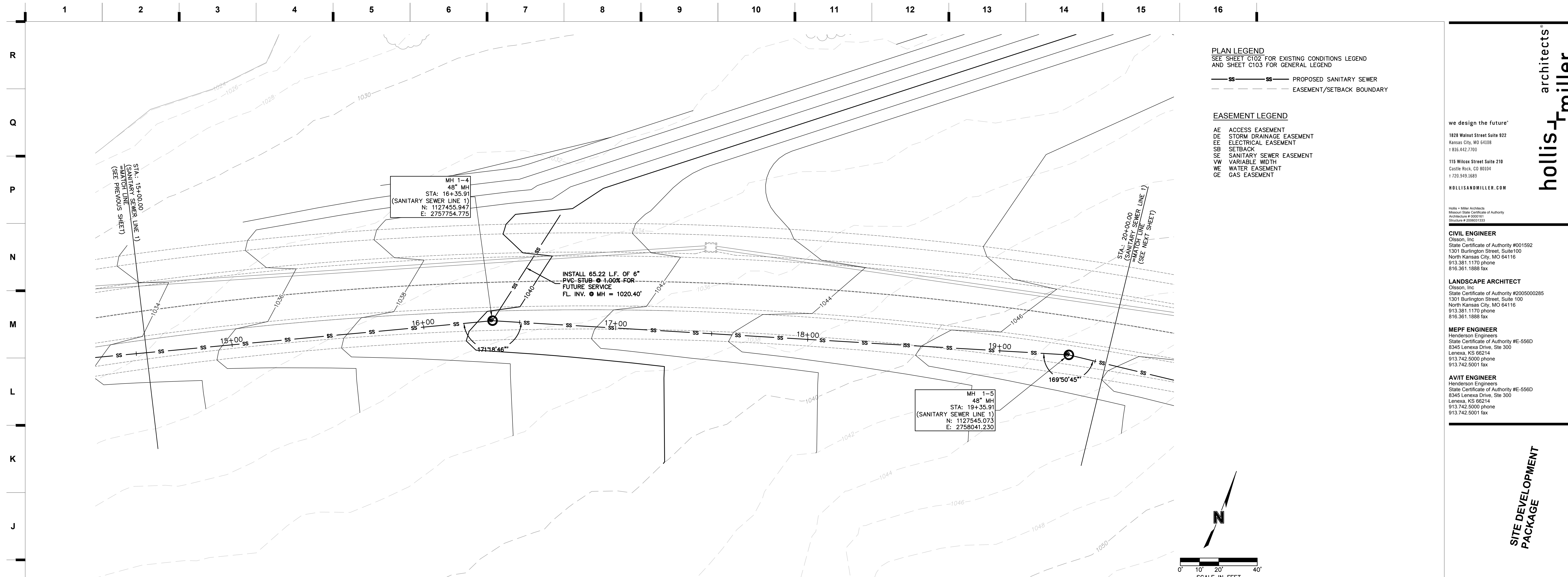


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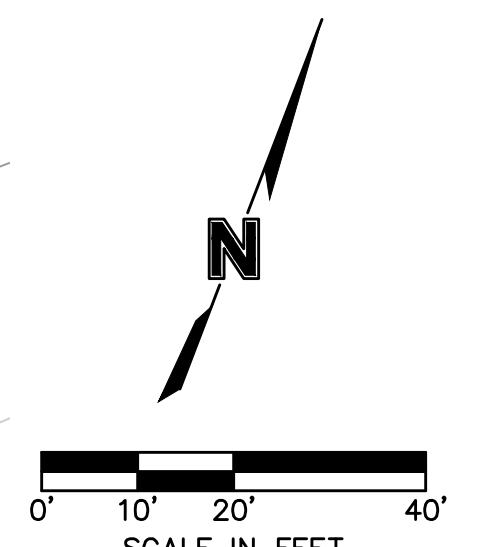
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C601





- PLAN LEGEND**
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND
 AND SHEET C103 FOR GENERAL LEGEND
- SS — SS — PROPOSED SANITARY SEWER
 - - - - - EASEMENT/SETBACK BOUNDARY
- EASEMENT LEGEND**
- AE ACCESS EASEMENT
 - DE STORM DRAINAGE EASEMENT
 - EE ELECTRICAL EASEMENT
 - SB SETBACK
 - SE SANITARY SEWER EASEMENT
 - VW VARIABLE WIDTH
 - WE WATER EASEMENT
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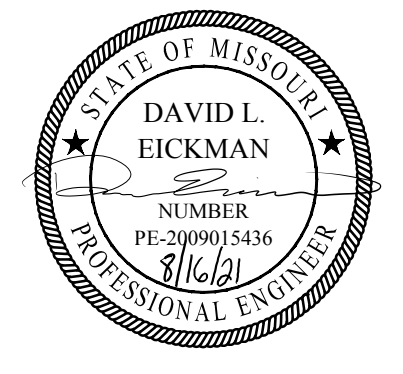
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SITE DEVELOPMENT
 PACKAGE

Platte County Middle School
 Platte County School District
 N Platte Purchase Drive & NW 95th,
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REVISIONS:

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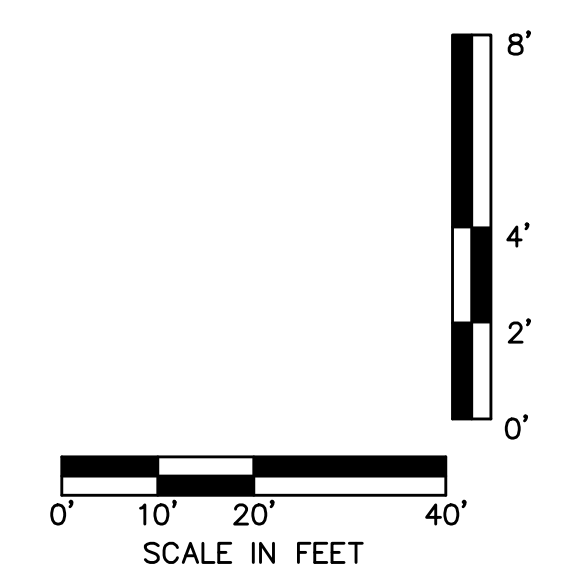
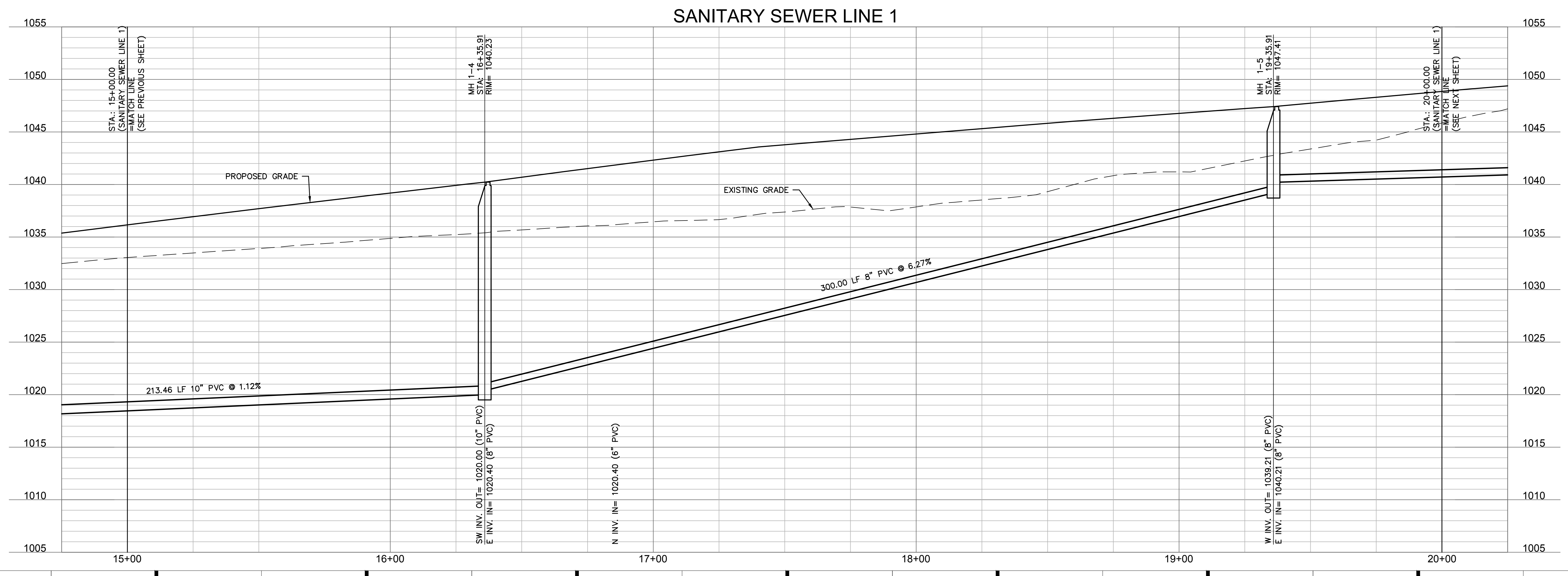


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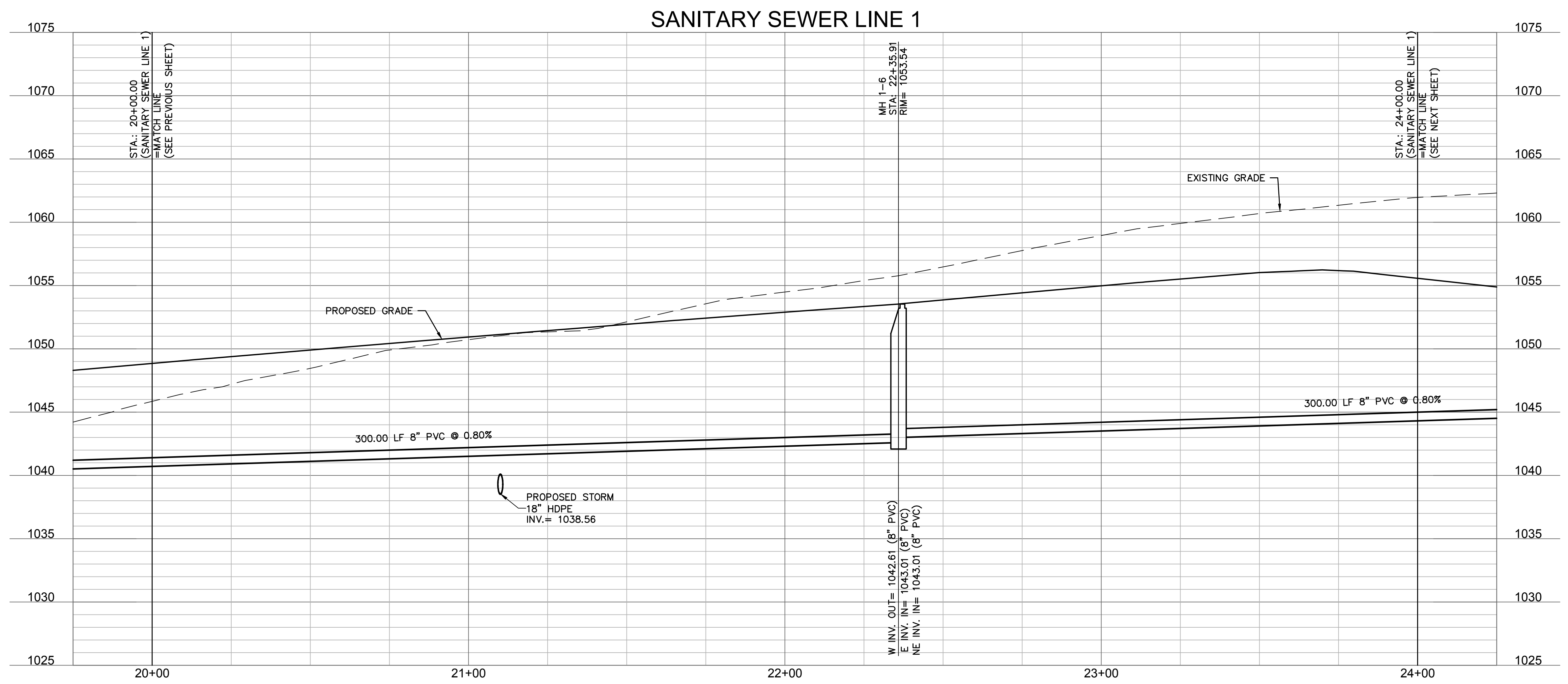
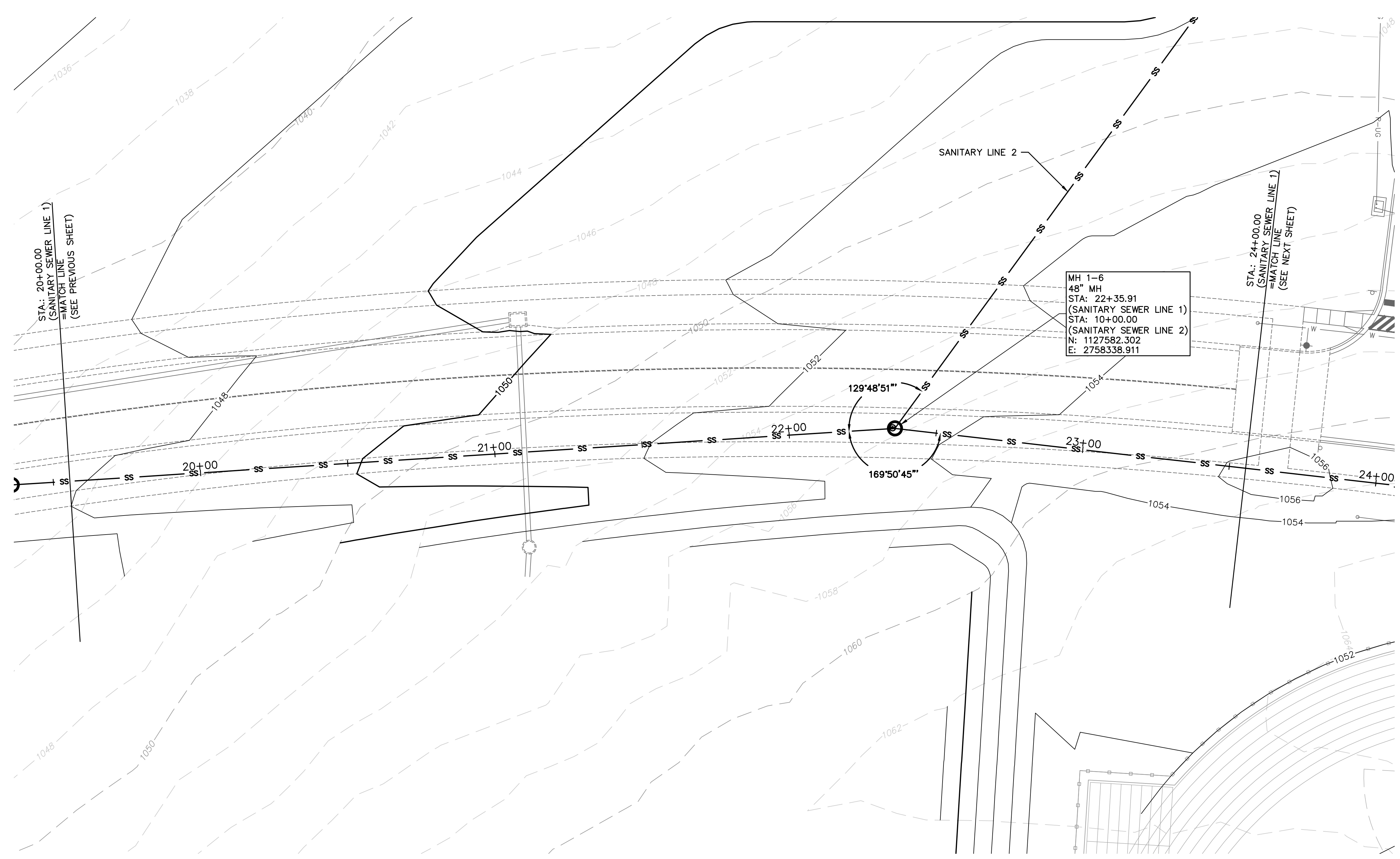
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SITE DEVELOPMENT PACKAGE

Platte County Middle School
Platte County School District
N Platte Purchase Drive & NW 95th,
Kansas City, MO 64154

REVISIONS:

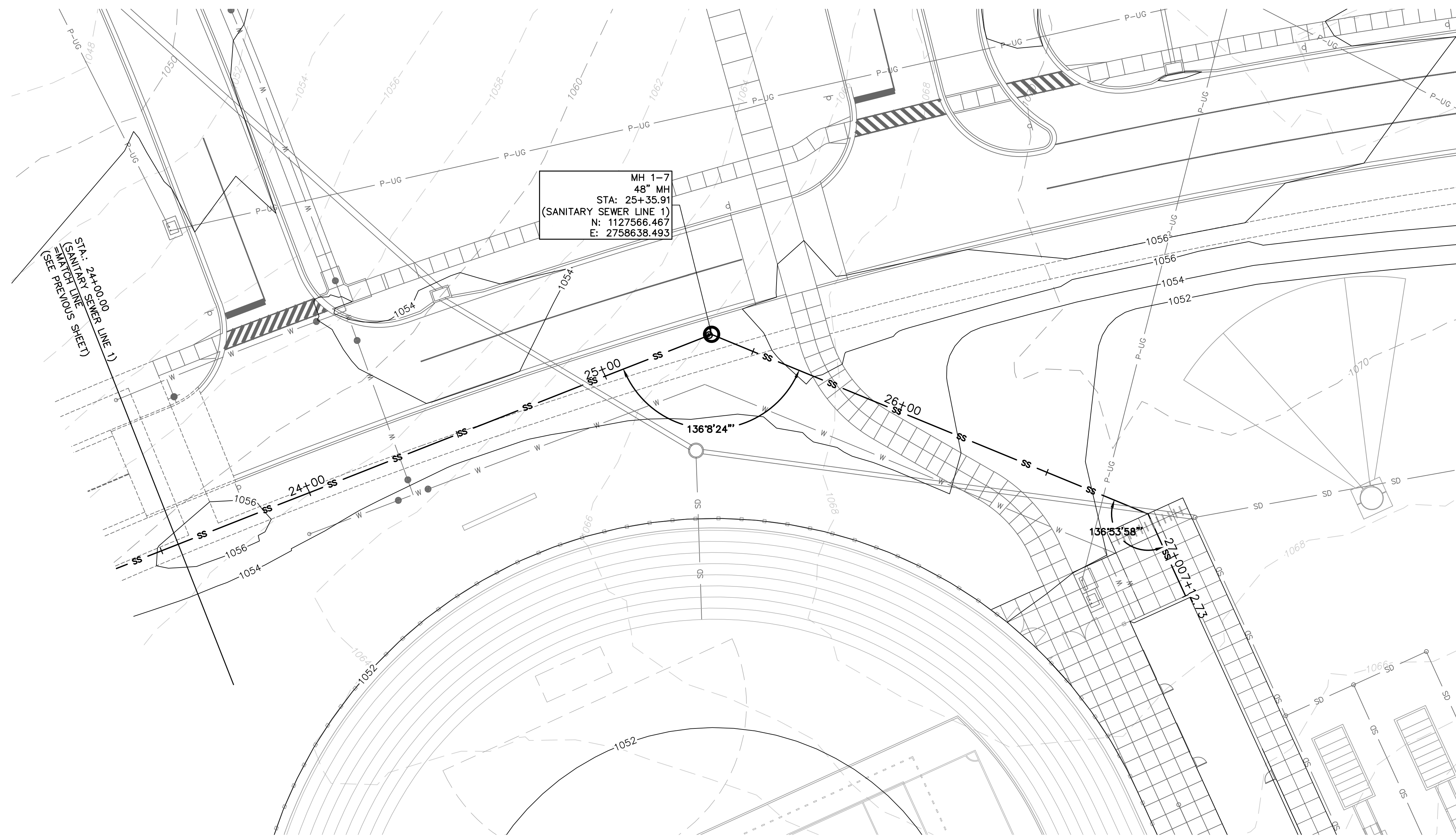
#	Description	Date

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 CHECKED BY: DE
 DATE: 08.16.2021

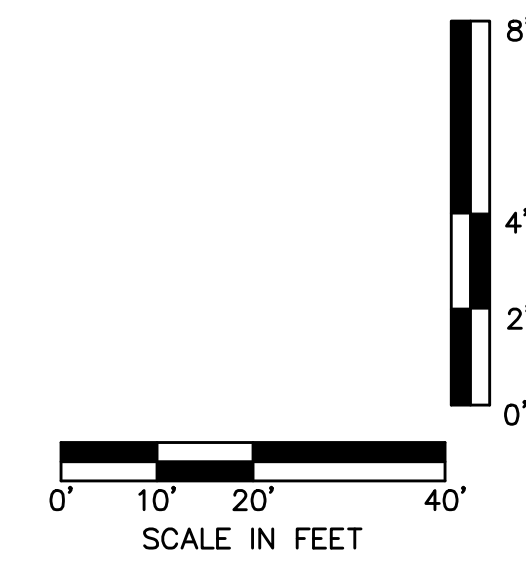
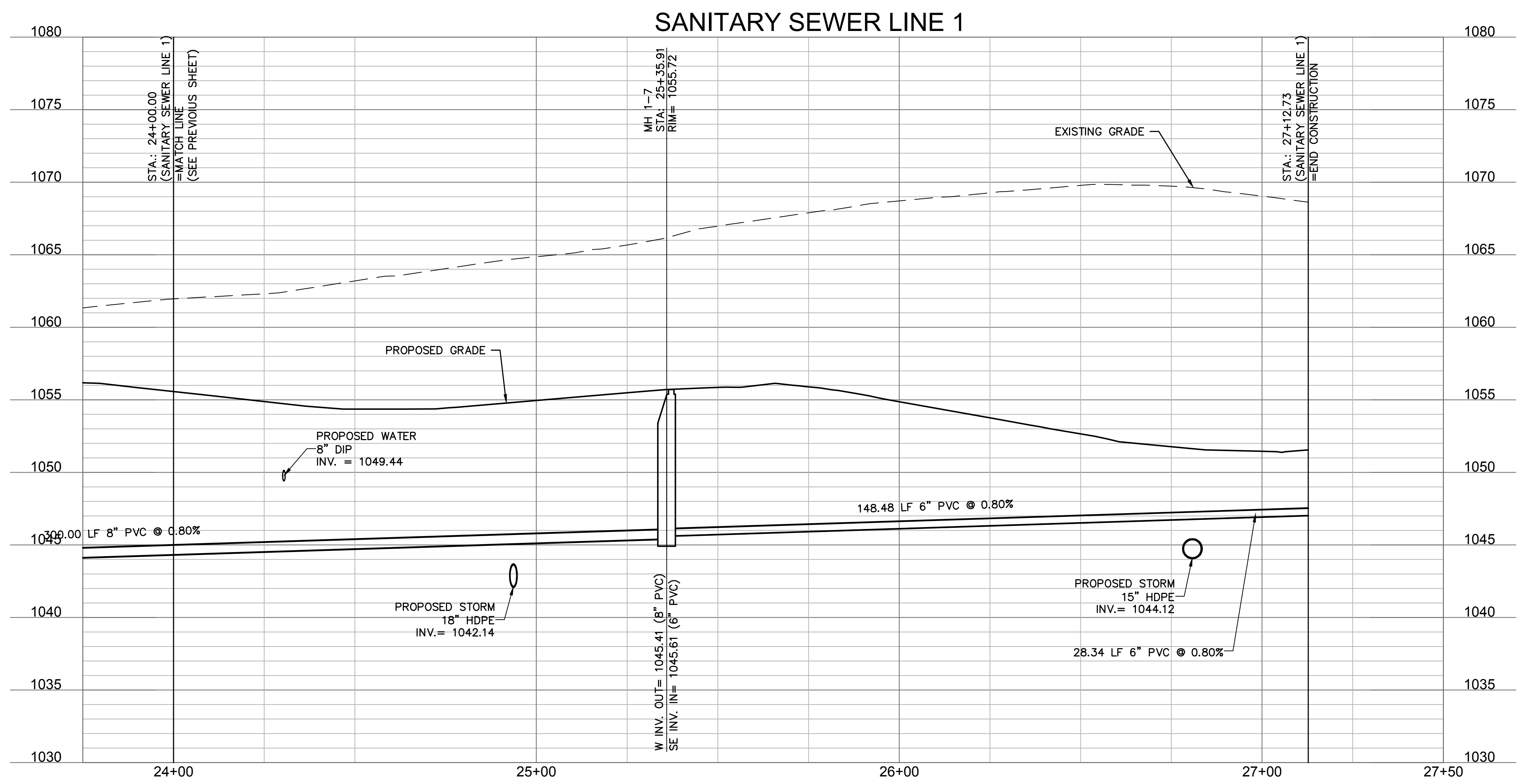
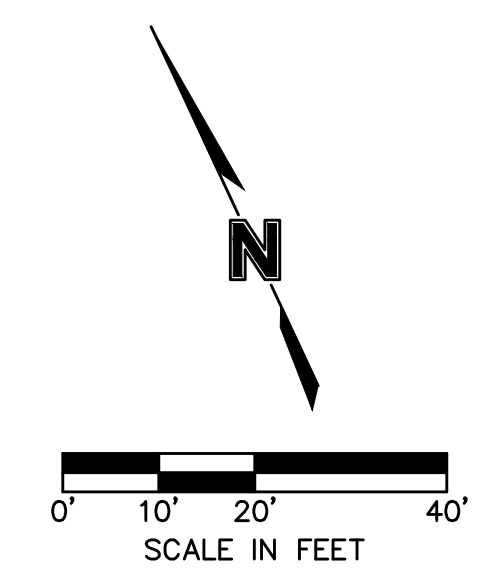
C603

SANITARY SEWER PLAN & PROFILE (LINE 1)

8/13/2021 10:09:55 AM



- PLAN LEGEND**
SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND
AND SHEET C103 FOR GENERAL LEGEND
- SS — SS — PROPOSED SANITARY SEWER
 - - - - - EASEMENT/SETBACK BOUNDARY
- EASEMENT LEGEND**
- AE ACCESS EASEMENT
 - DE STORM DRAINAGE EASEMENT
 - EE ELECTRICAL EASEMENT
 - SB SETBACK
 - SE SANITARY SEWER EASEMENT
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SITE DEVELOPMENT PACKAGE

Platte County Middle School
Platte County School District
N Platte Purchase Drive & NW 95th,
Kansas City, MO 64154

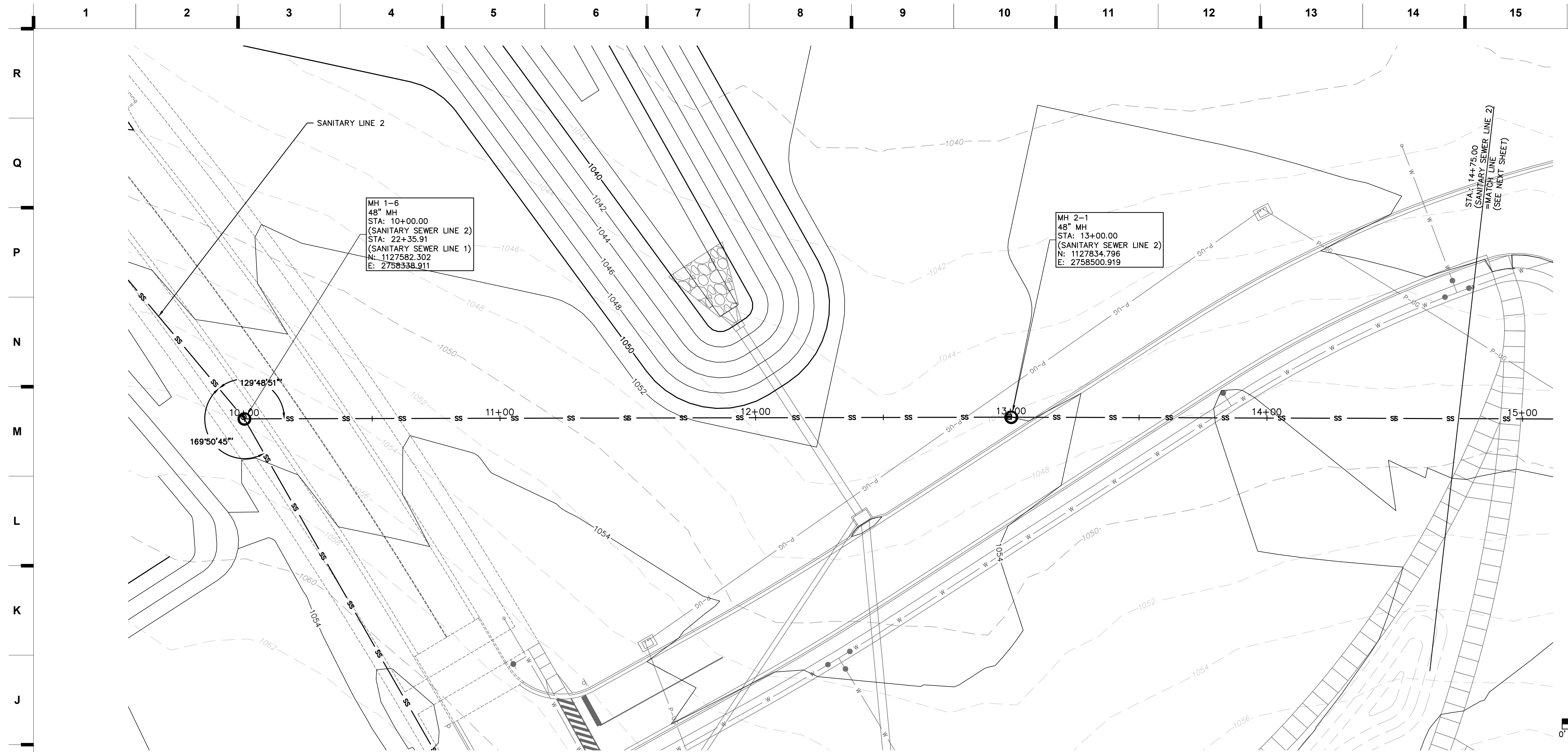
REVISIONS:

#	Description	Date

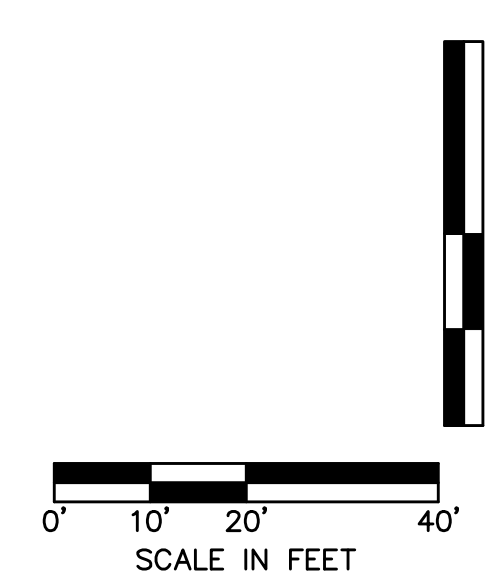
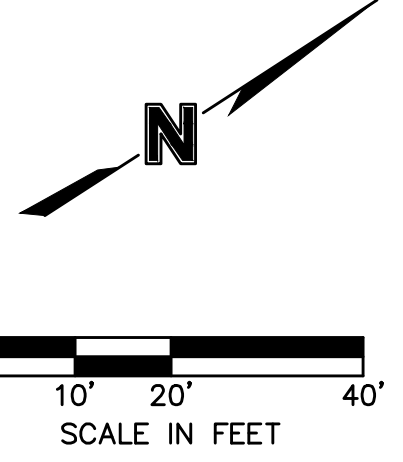
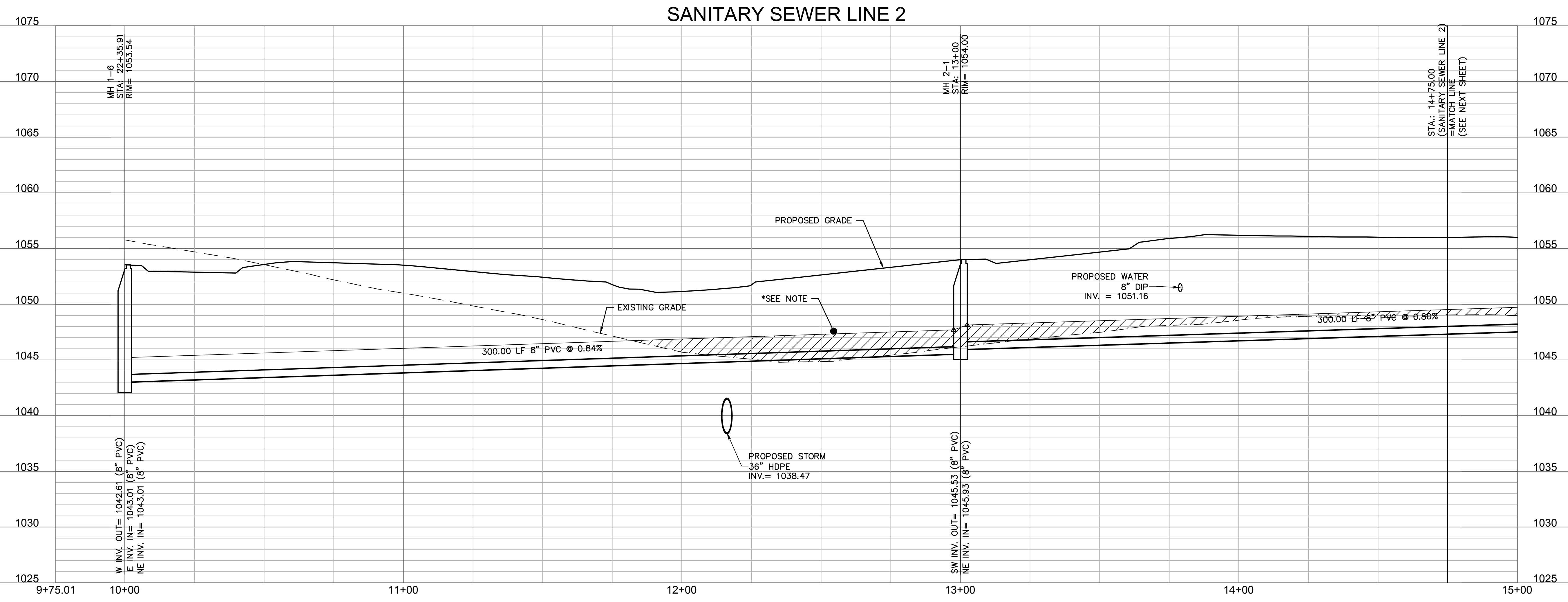


JOB NO: 20221
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C604



***NOTE**
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SITE DEVELOPMENT PACKAGE

Platte County Middle School
Platte County School District
N Platte Purchase Drive & NW 95th,
Kansas City, MO 64154

REVISIONS:

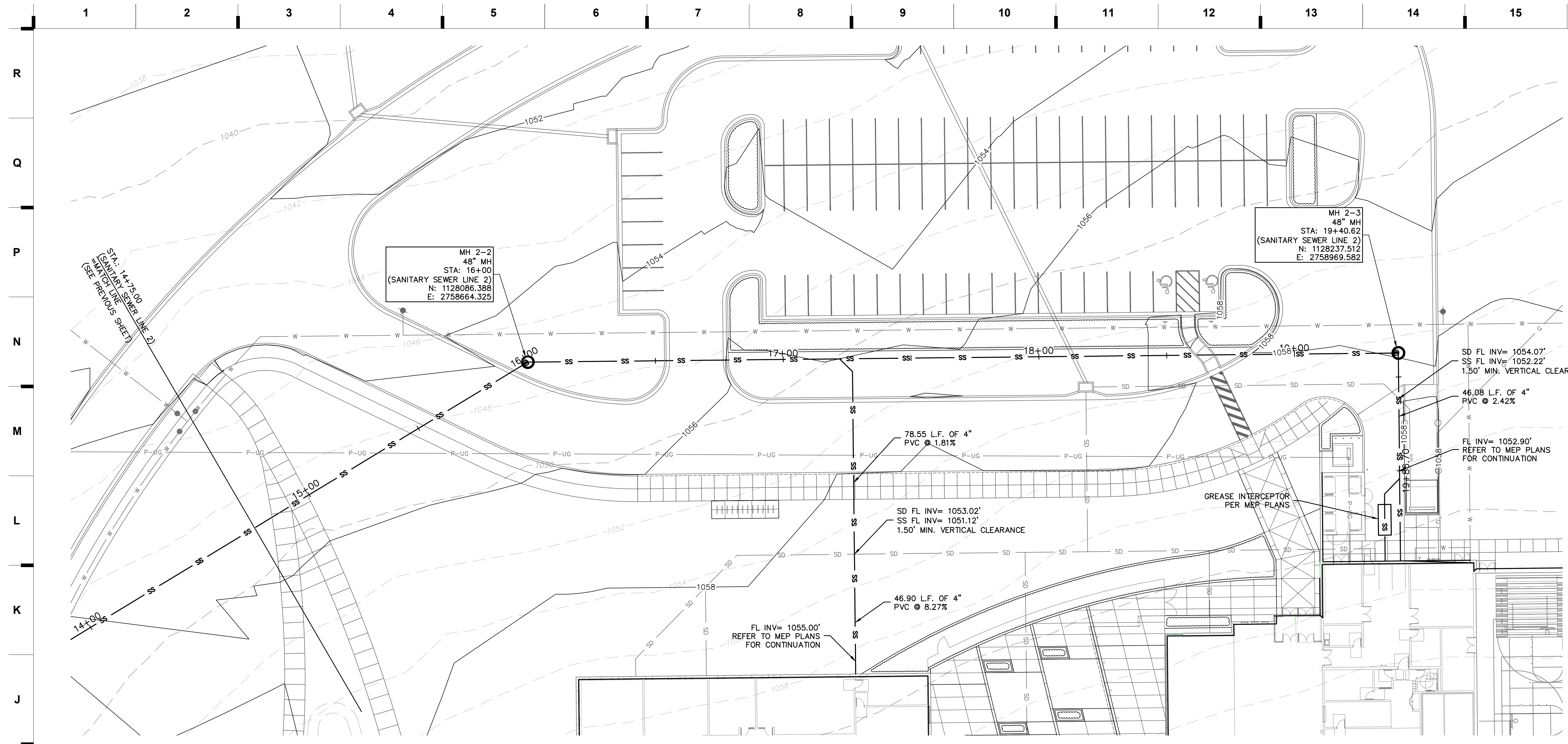
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STATE OF MISSOURI
DAVID L. EICKMAN
 MISSOURI PROFESSIONAL ENGINEER
 NUMBER PE-39969-0439

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C605



PLAN LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND
 AND SHEET C103 FOR GENERAL LEGEND

— SS — SS — PROPOSED SANITARY SEWER
 - - - - - EASEMENT/SETBACK BOUNDARY

EASEMENT LEGEND

AE ACCESS EASEMENT
 DE STORM DRAINAGE EASEMENT
 EE ELECTRICAL EASEMENT
 SB SETBACK
 SE SANITARY SEWER EASEMENT
 VW VARIABLE WIDTH
 WE WATER EASEMENT
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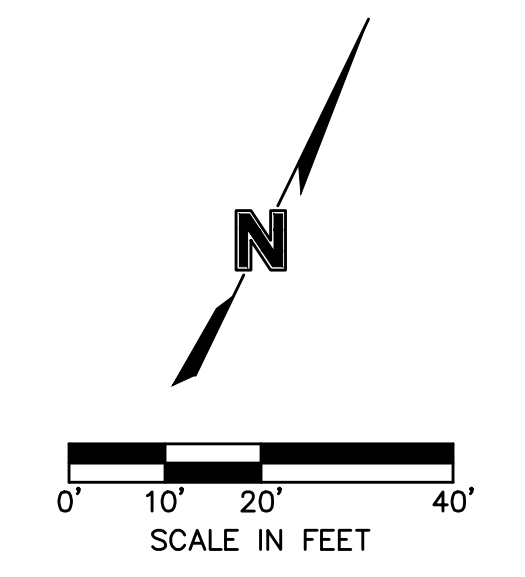
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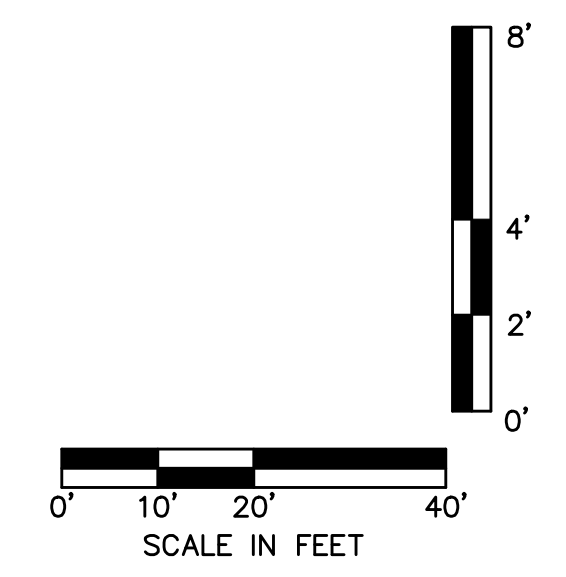
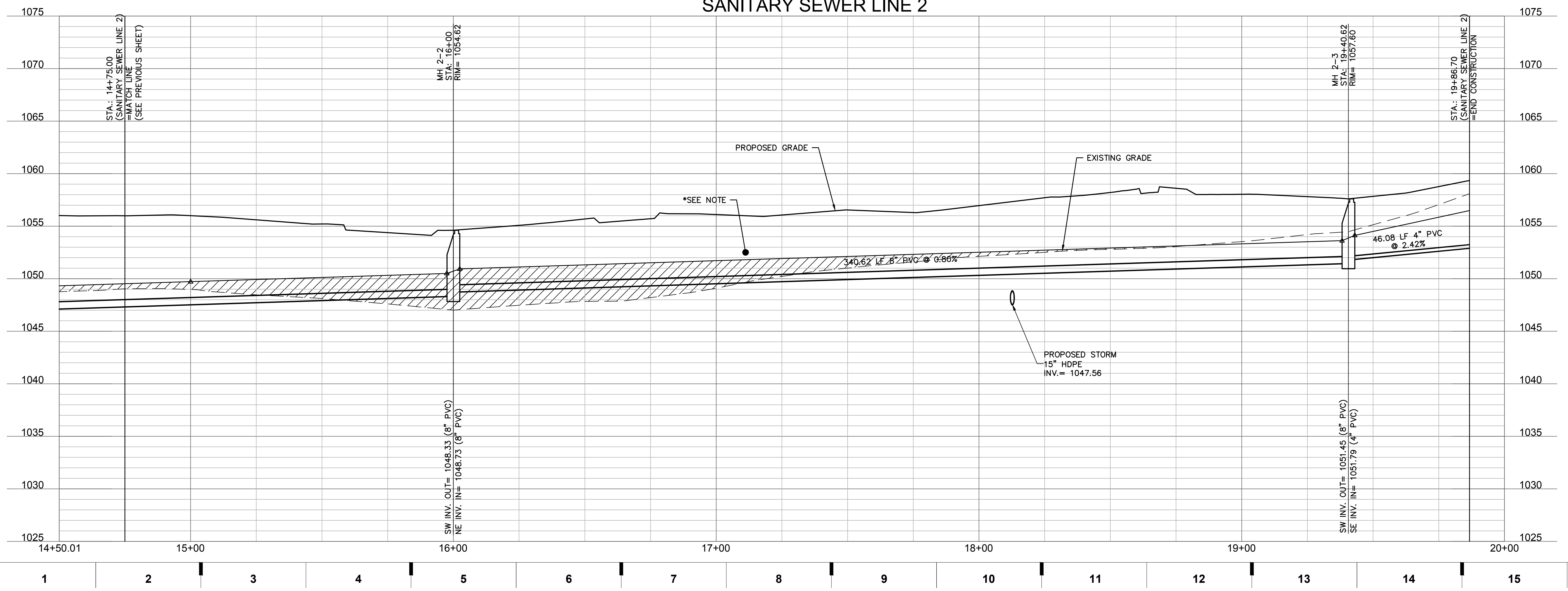
SITE DEVELOPMENT PACKAGE

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 Platte County School District
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***NOTE**
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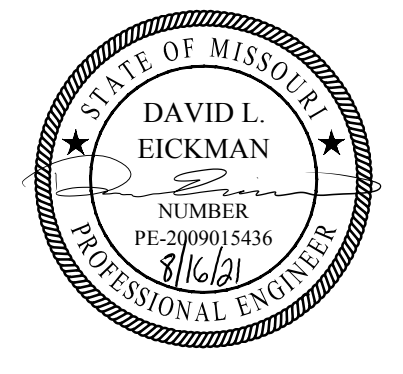


SANITARY SEWER LINE 2



REVISIONS:

#	Description	Date



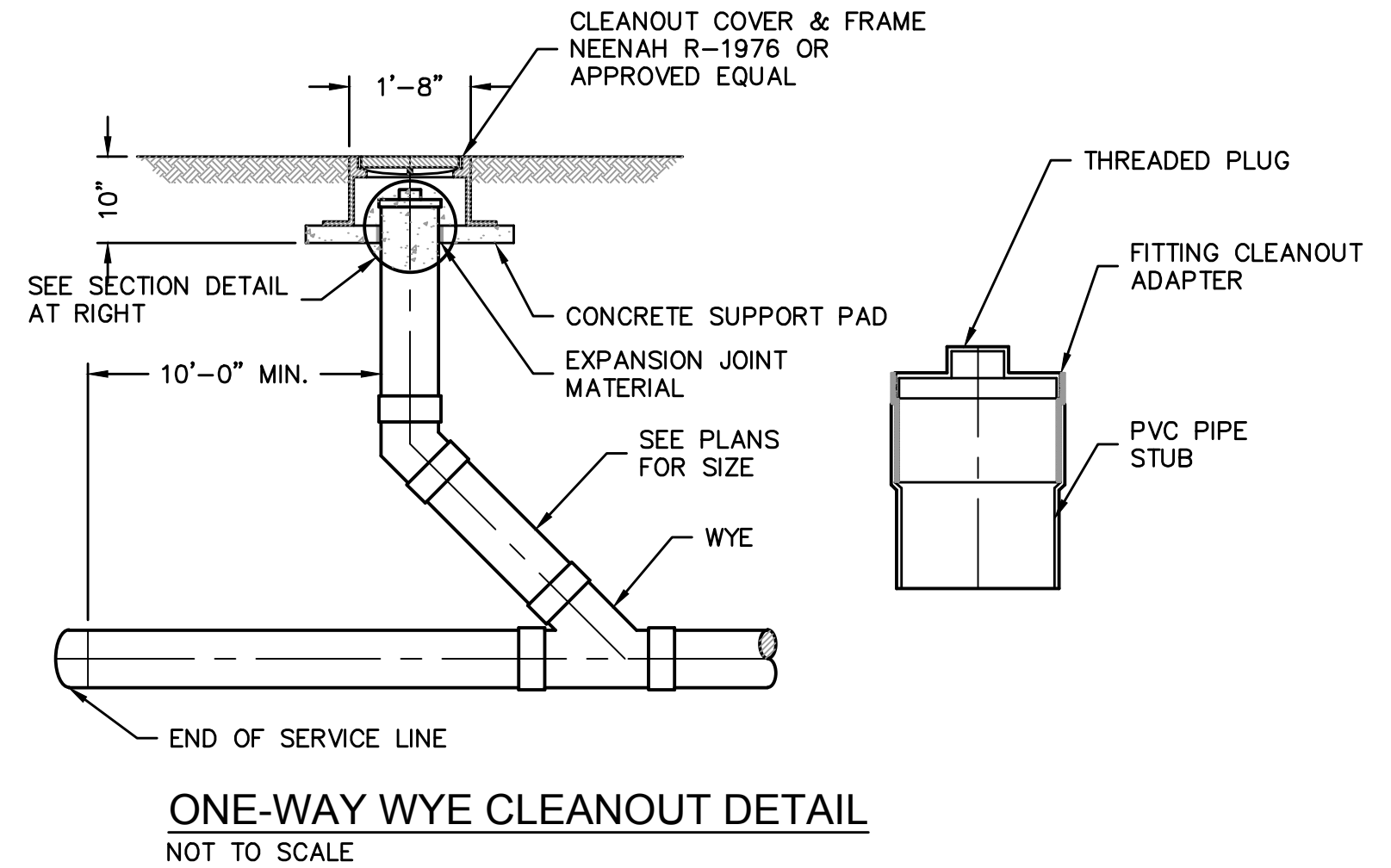
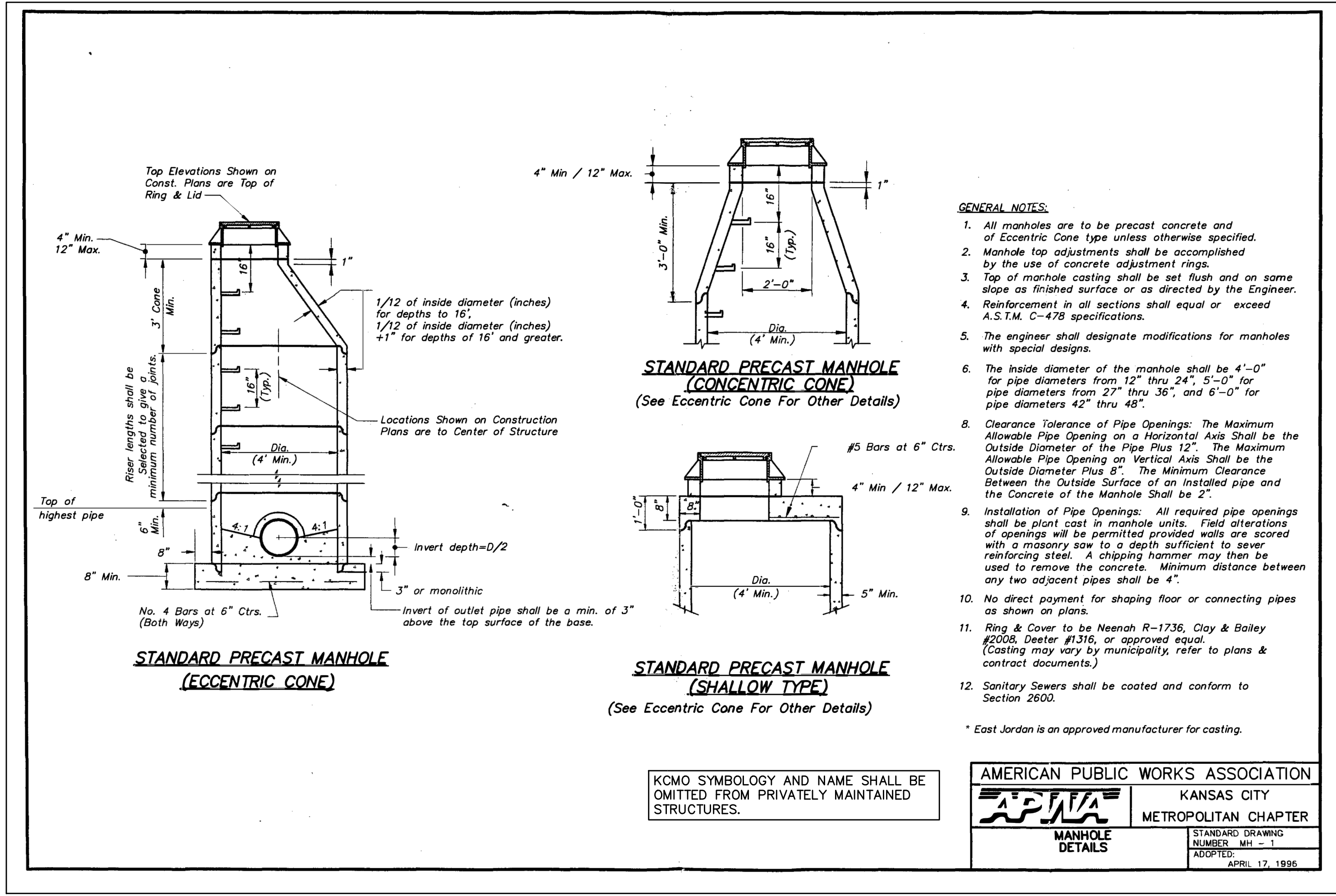
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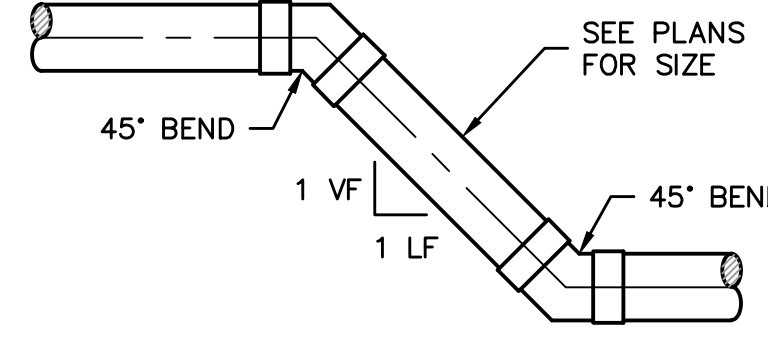
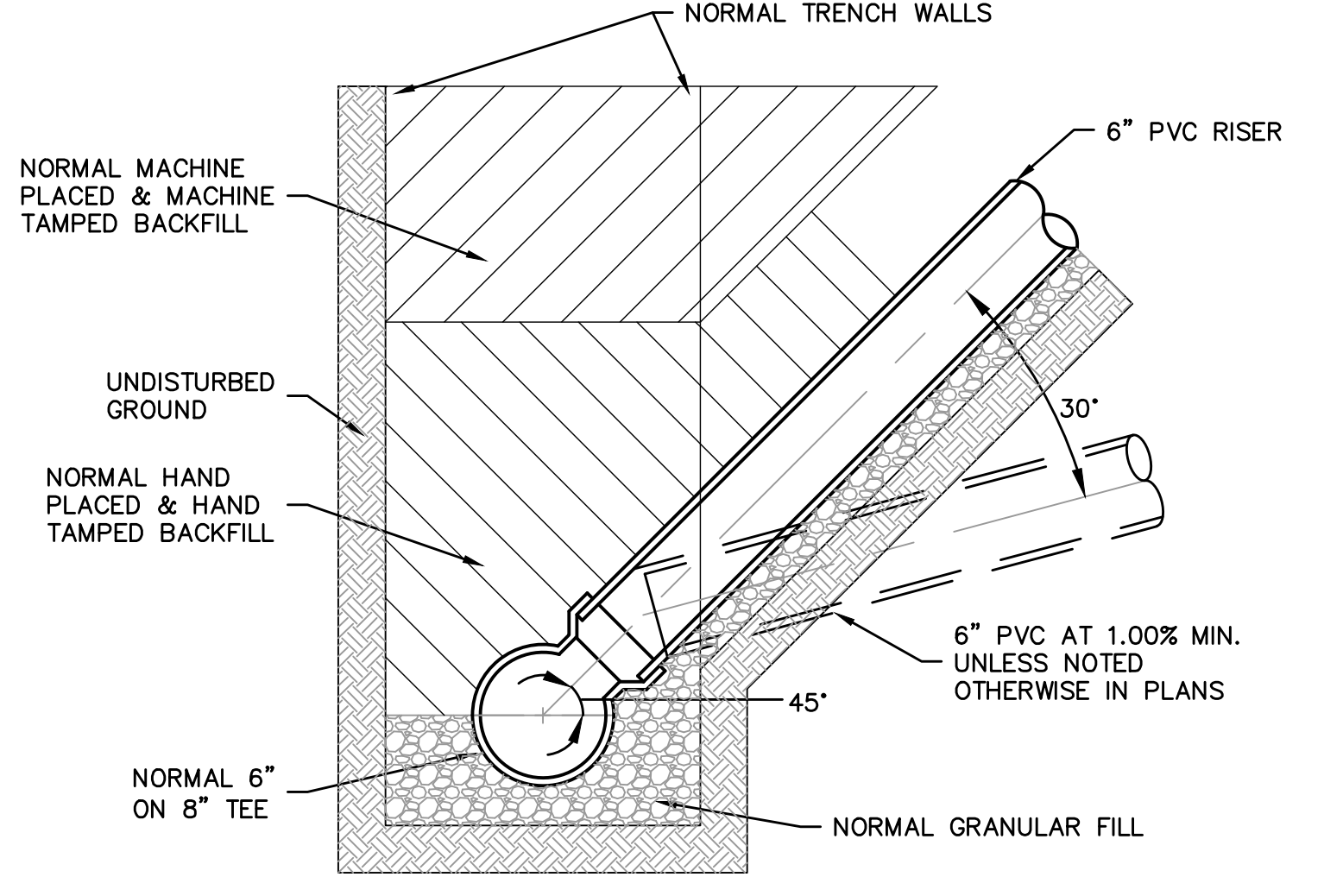


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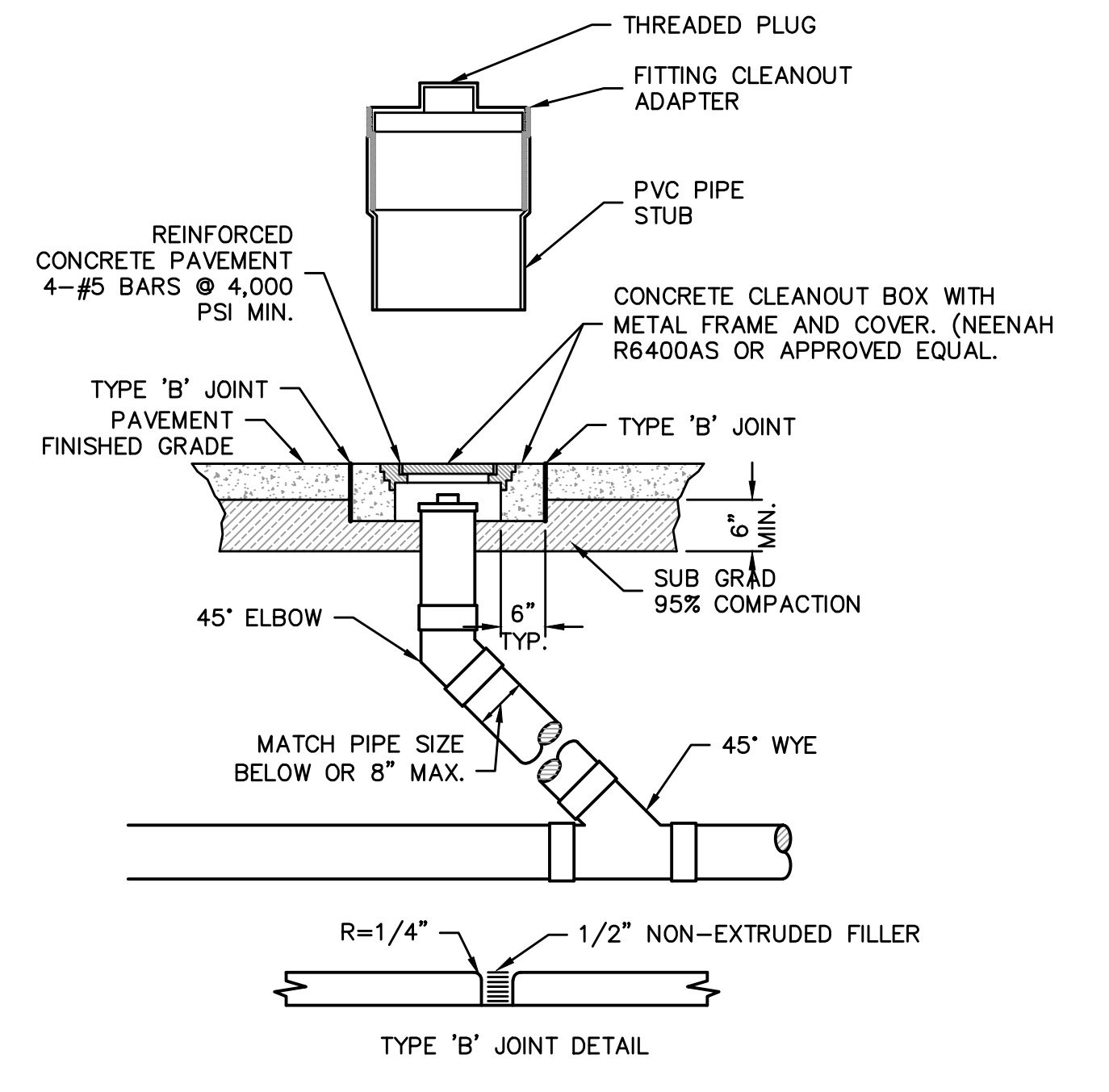
THE "HEAVY DUTY ONE-WAY CLEANOUT DETAIL" APPLIES TO CLEANOUTS WITHIN VEHICULAR PATHS.

CLEANOUTS WITHIN SIDEWALKS AND OTHER PEDESTRIAN PATHS MAY REFERENCE THE "ONE-WAY CLEANOUT DETAIL".

IN ALL CASES THE CONTRACTOR SHALL ENSURE THAT SLOPES NEAR AND ACROSS FRAMES AND COVERS DOES NOT CREATE TRIPPING HAZARDS, ABRUPT SLOPE CHANGES, OR ANY PONDING.



NOTE: EMBEDMENT DEPTHS SHALL MEET MINIMUMS AS REQUIRED BY LOCAL CODES AND ORDINANCES, OR AS DESCRIBED IN THESE PLANS, WHICHEVER IS MORE STRINGENT.



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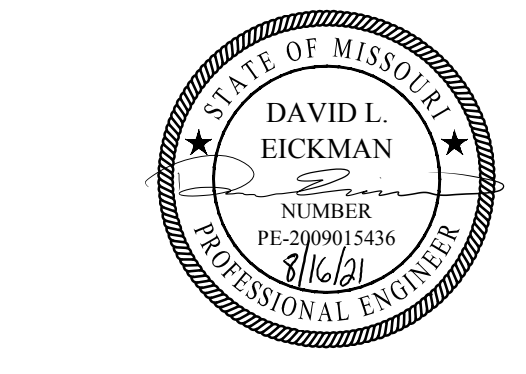
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Platte County Middle School
Platte County School District
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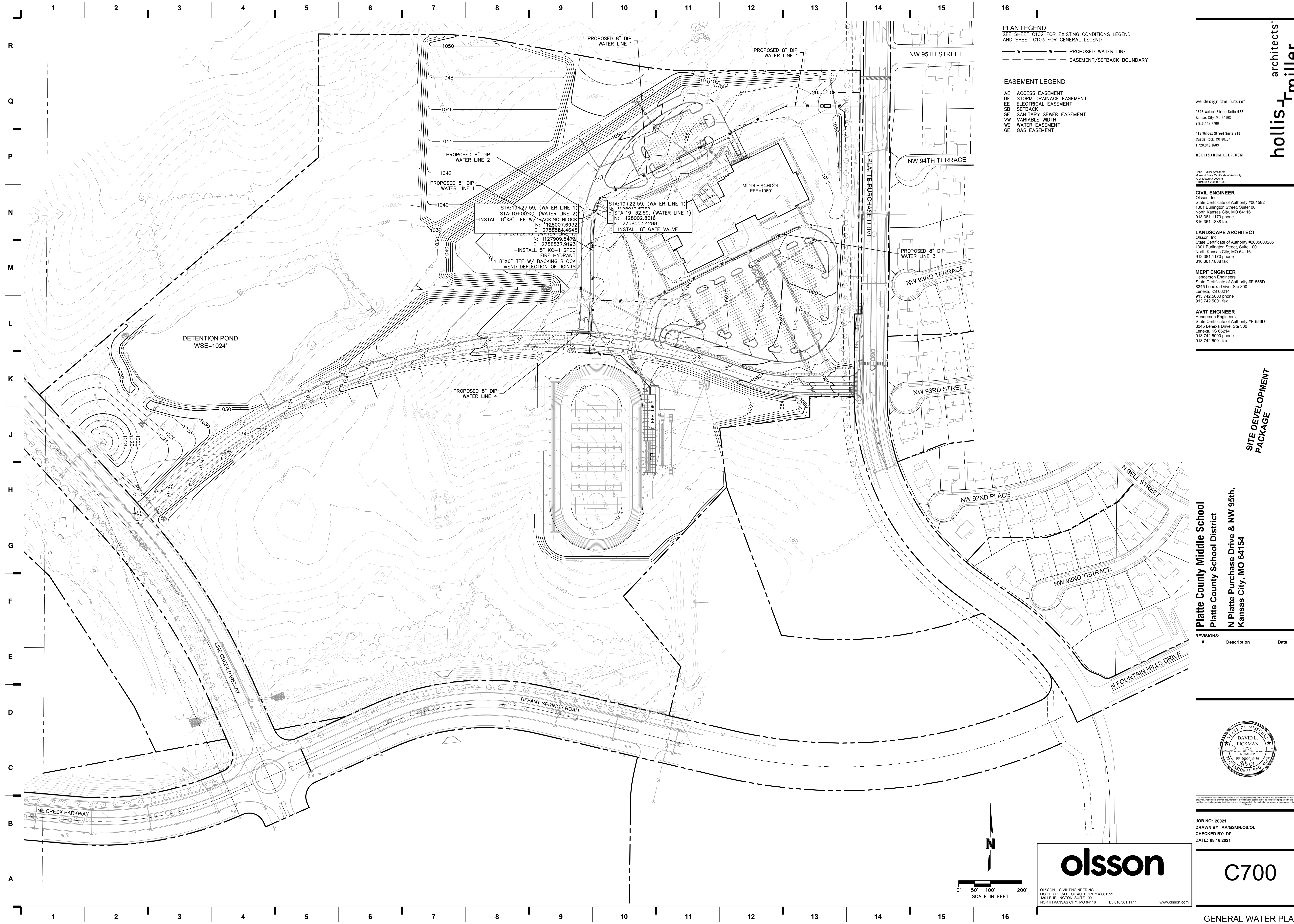


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C607



PLAN LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND
 AND SHEET C103 FOR GENERAL LEGEND

— W — W — PROPOSED WATER LINE
 - - - - - EASEMENT/SETBACK BOUNDARY

EASEMENT LEGEND

- AE ACCESS EASEMENT
- DE STORM DRAINAGE EASEMENT
- EE ELECTRICAL EASEMENT
- SB SETBACK
- SE SANITARY SEWER EASEMENT
- VW VARIABLE WIDTH
- WE WATER EASEMENT
- GE GAS EASEMENT

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 Structure # 00003333

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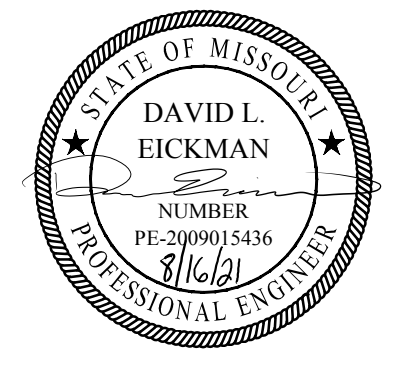
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JOB NO: 20021
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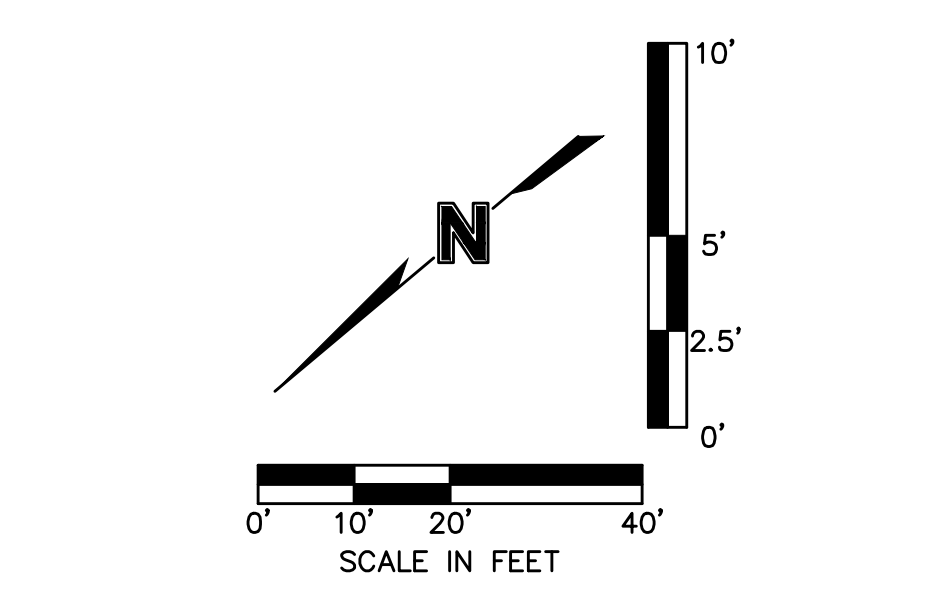
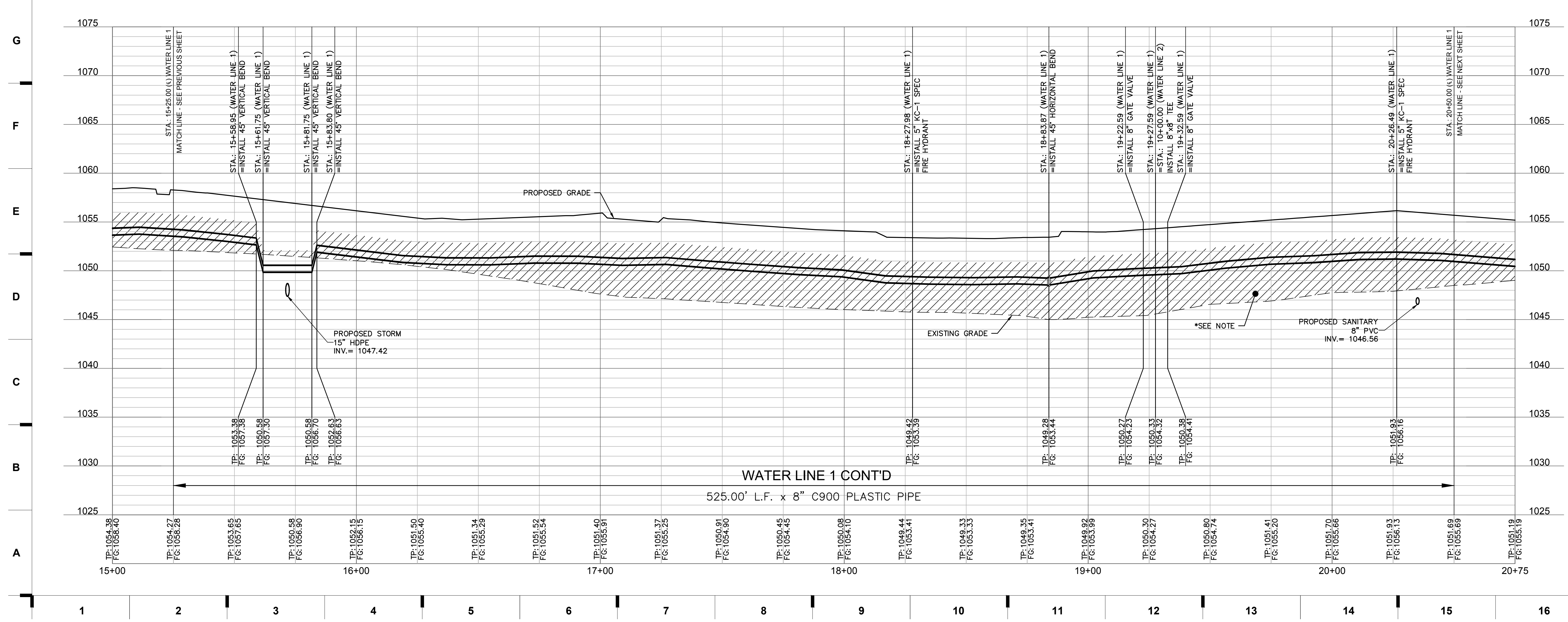
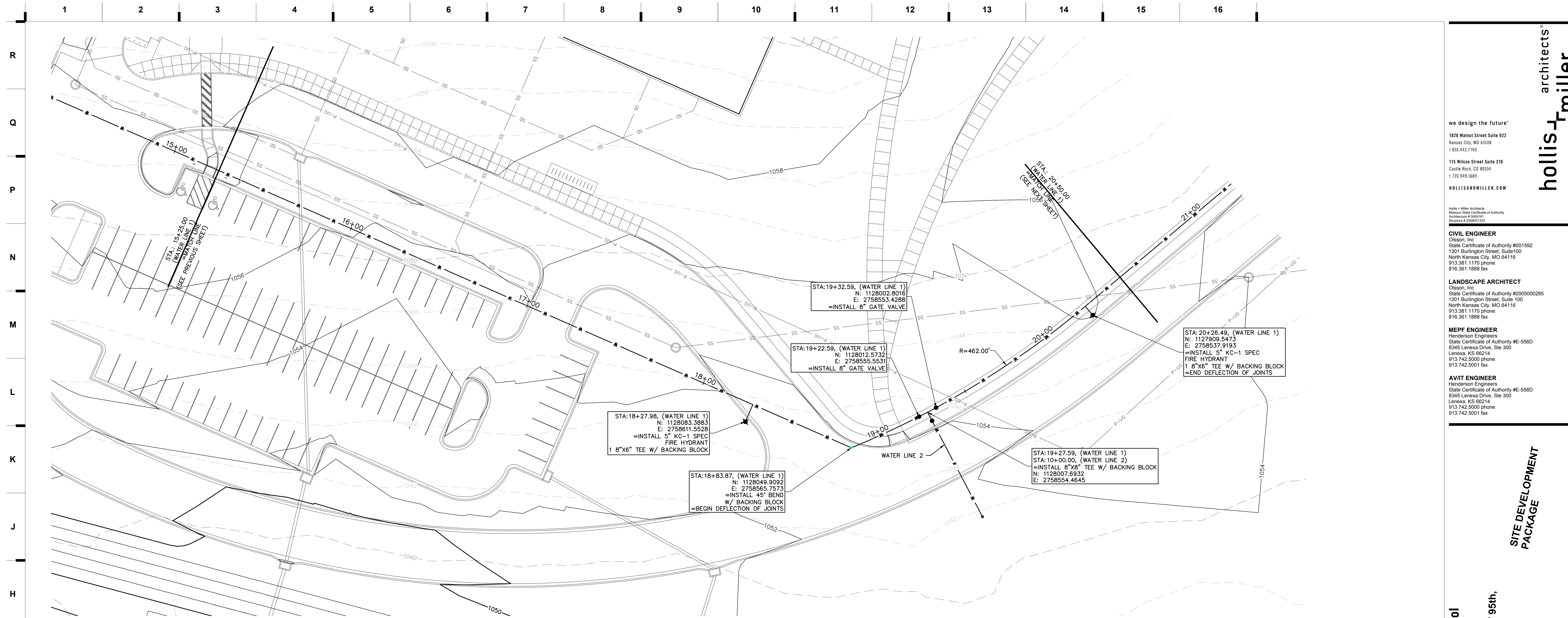
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PLAN LEGEND
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- W — PROPOSED WATER LINE
- - - - - EASEMENT/SETBACK BOUNDARY

EASEMENT LEGEND

- AE ACCESS EASEMENT
- DE STORM DRAINAGE EASEMENT
- EE ELECTRICAL EASEMENT
- SB SETBACK
- SE SANITARY SEWER EASEMENT
- VW VARIABLE WIDTH
- WE WATER EASEMENT
- GE GAS EASEMENT

***NOTE**
 CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.

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 Structure # 000031331

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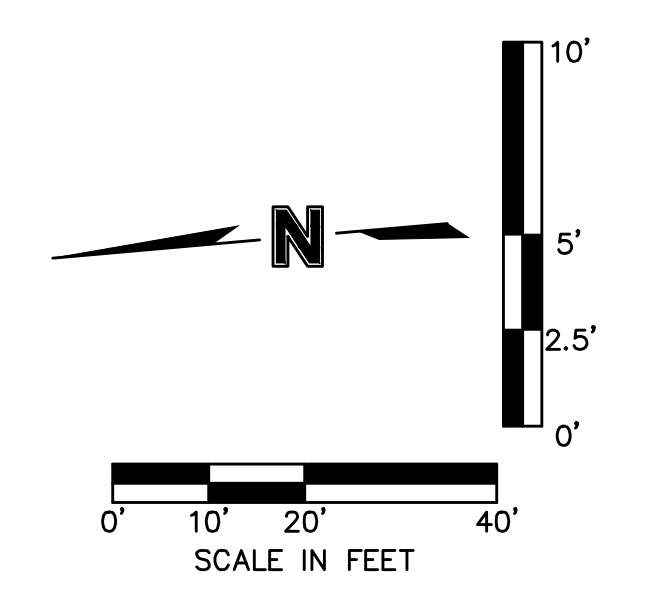
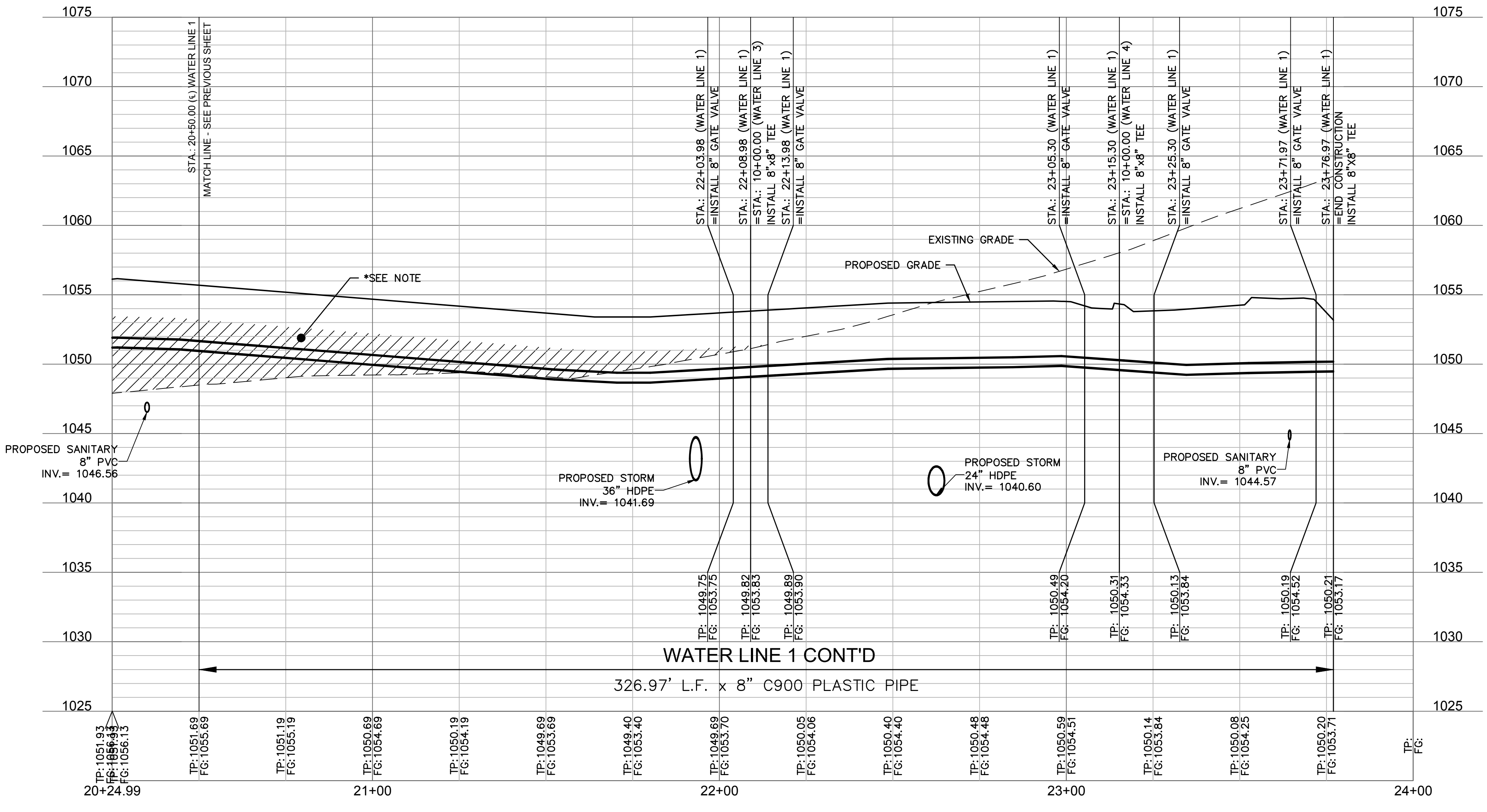
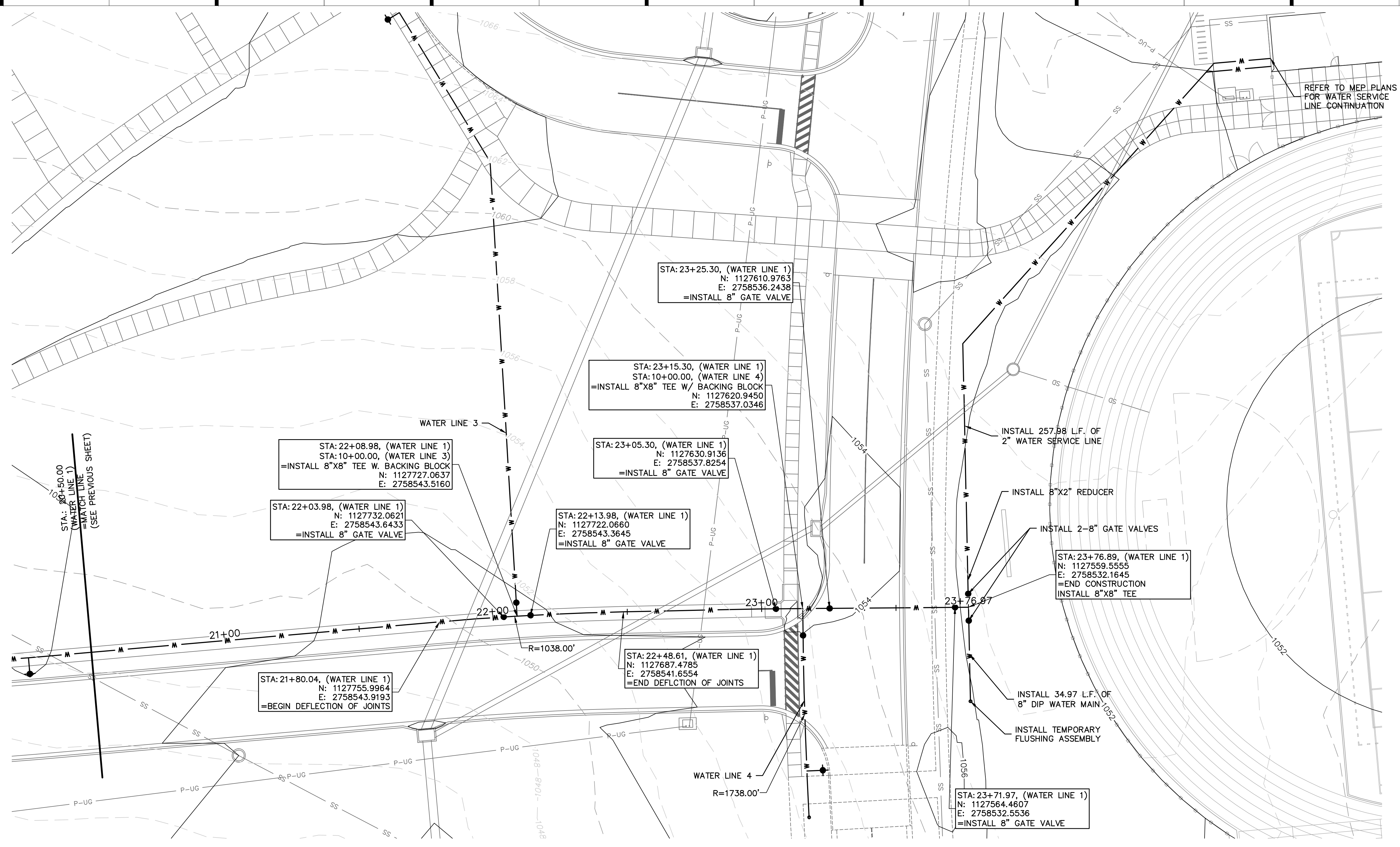
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C702

WATER MAIN PLAN & PROFILE (LINE 1)



PLAN LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND
 AND SHEET C103 FOR GENERAL LEGEND

— W — W — PROPOSED WATER LINE
 - - - - - EASEMENT/SETBACK BOUNDARY

EASEMENT LEGEND

- AE ACCESS EASEMENT
- DE STORM DRAINAGE EASEMENT
- EE ELECTRICAL EASEMENT
- SB SETBACK
- SE SANITARY SEWER EASEMENT
- VW VARIABLE WIDTH
- WE WATER EASEMENT
- GE GAS EASEMENT

***NOTE**

CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.

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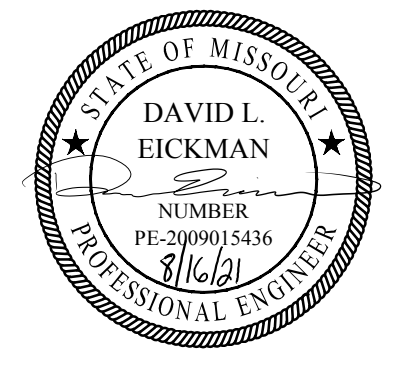
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Platte County School District
N Platte Purchase Drive & NW 95th,
Kansas City, MO 64154

REVISIONS:

#	Description	Date

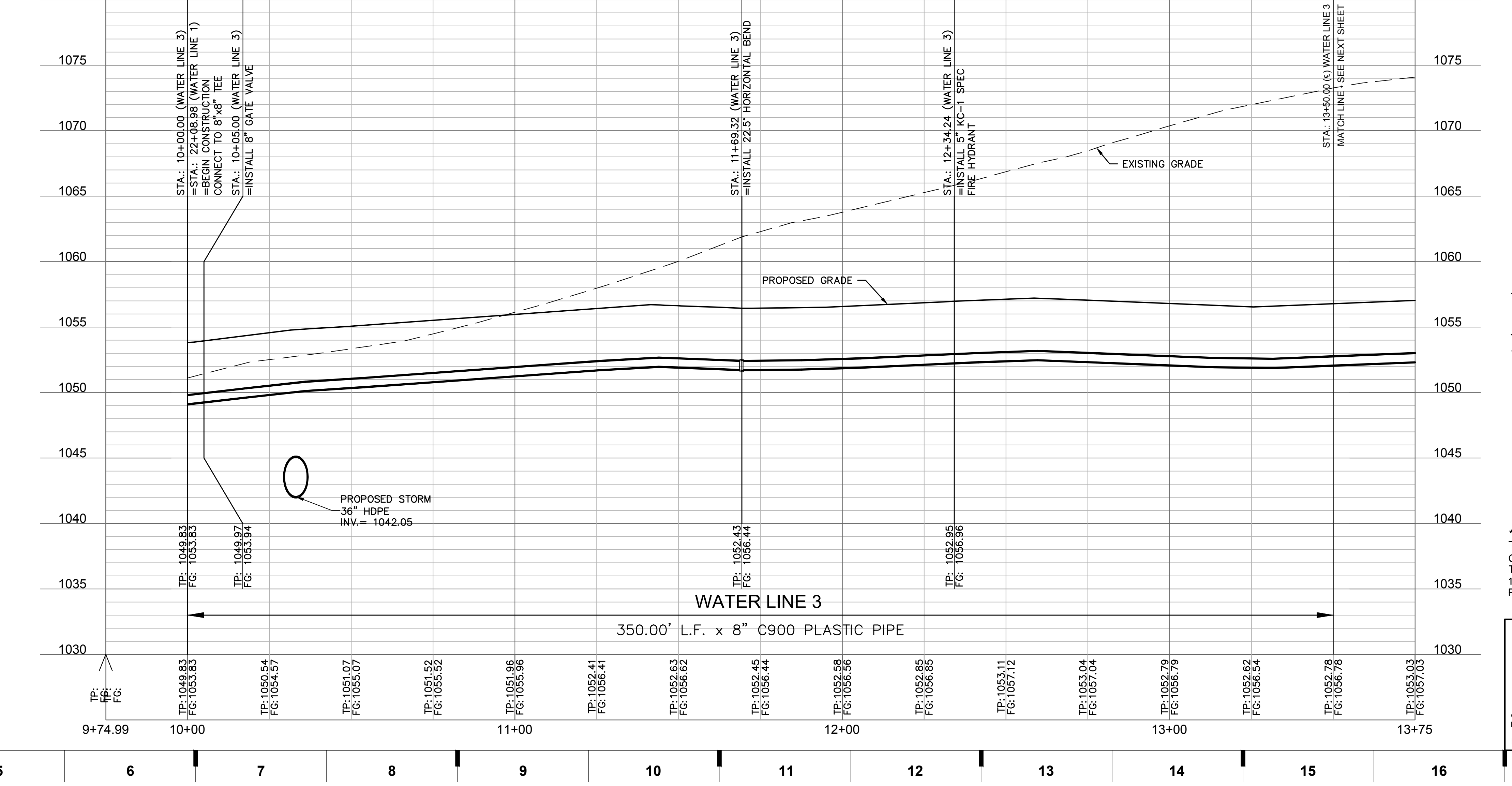
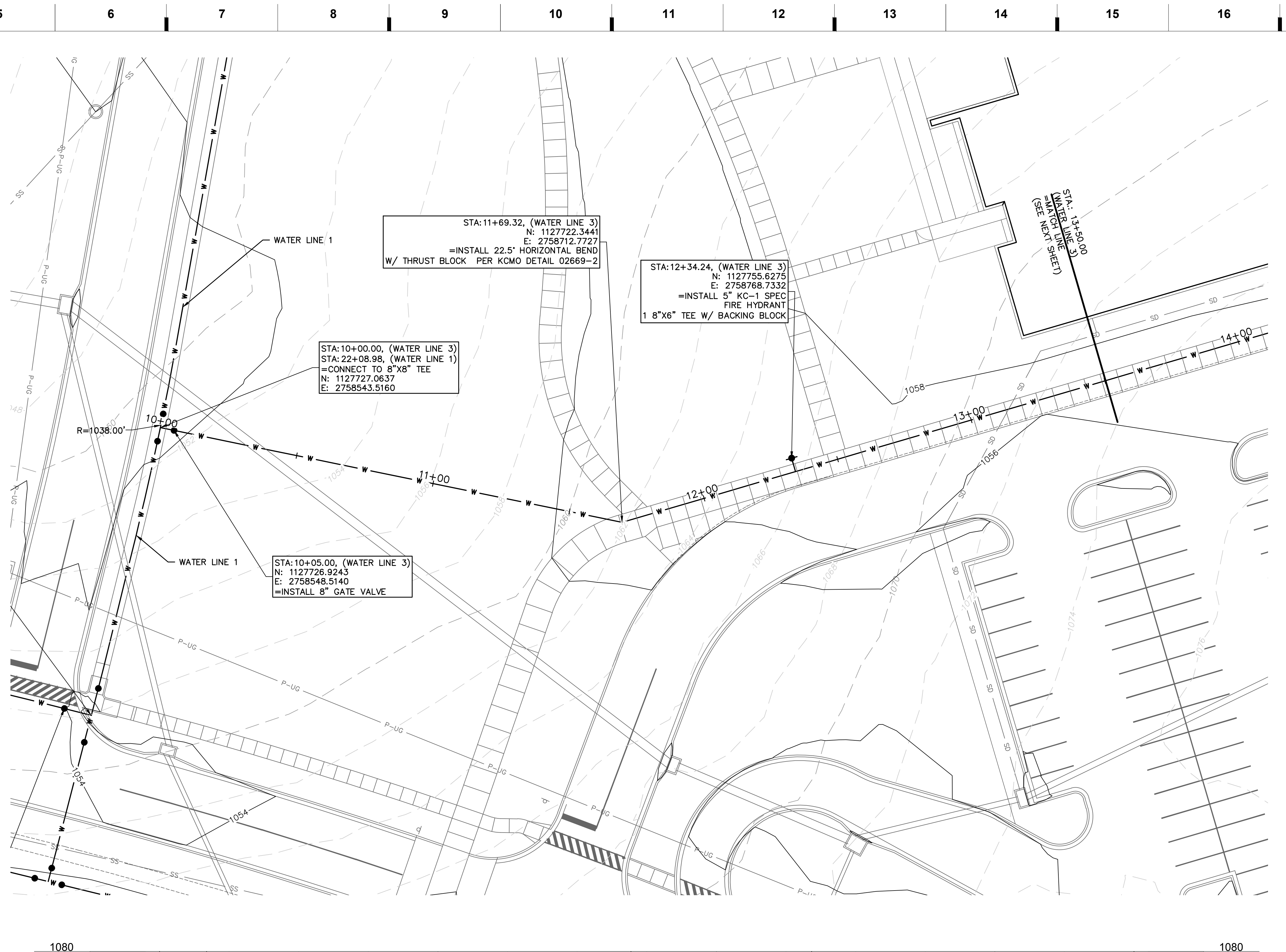
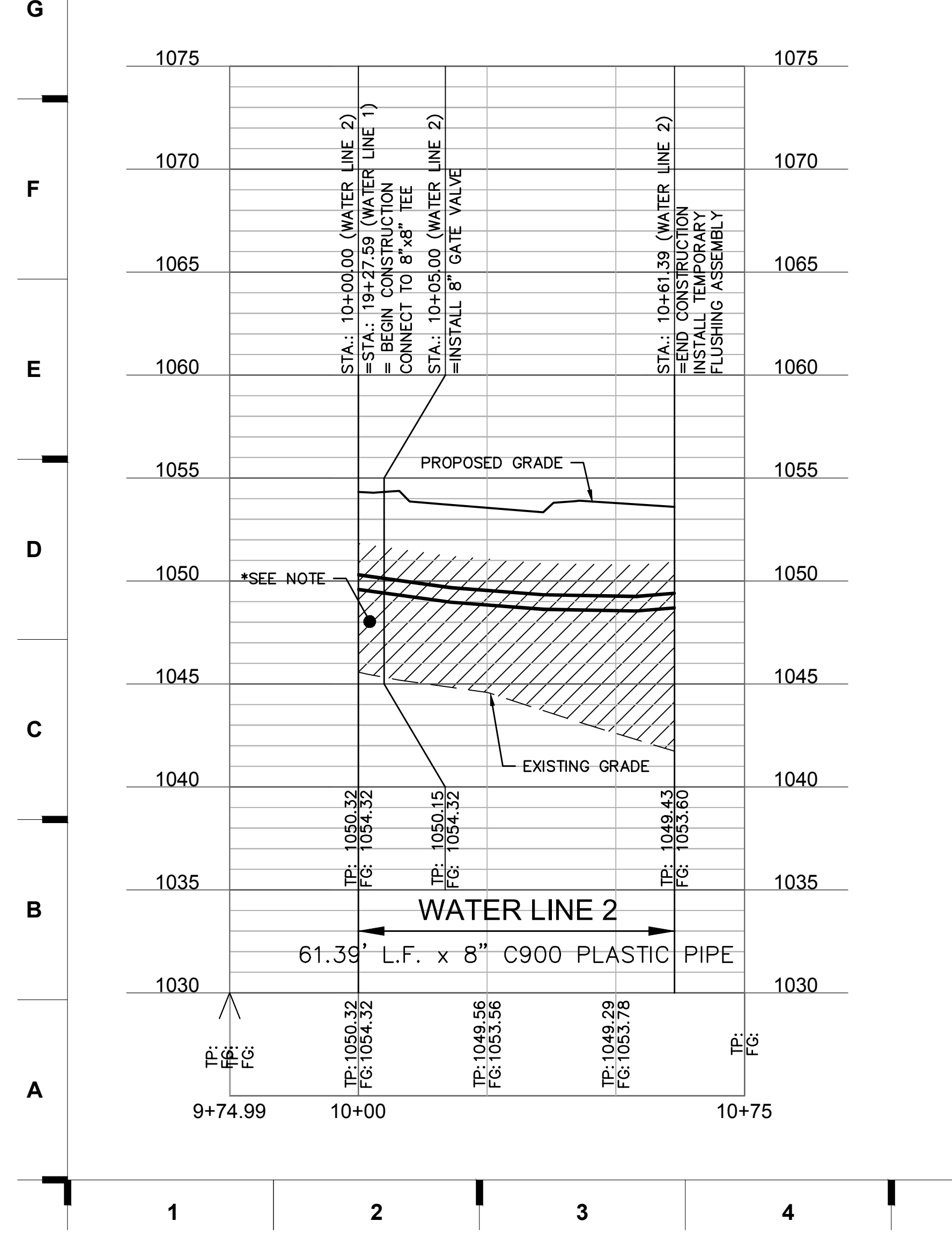
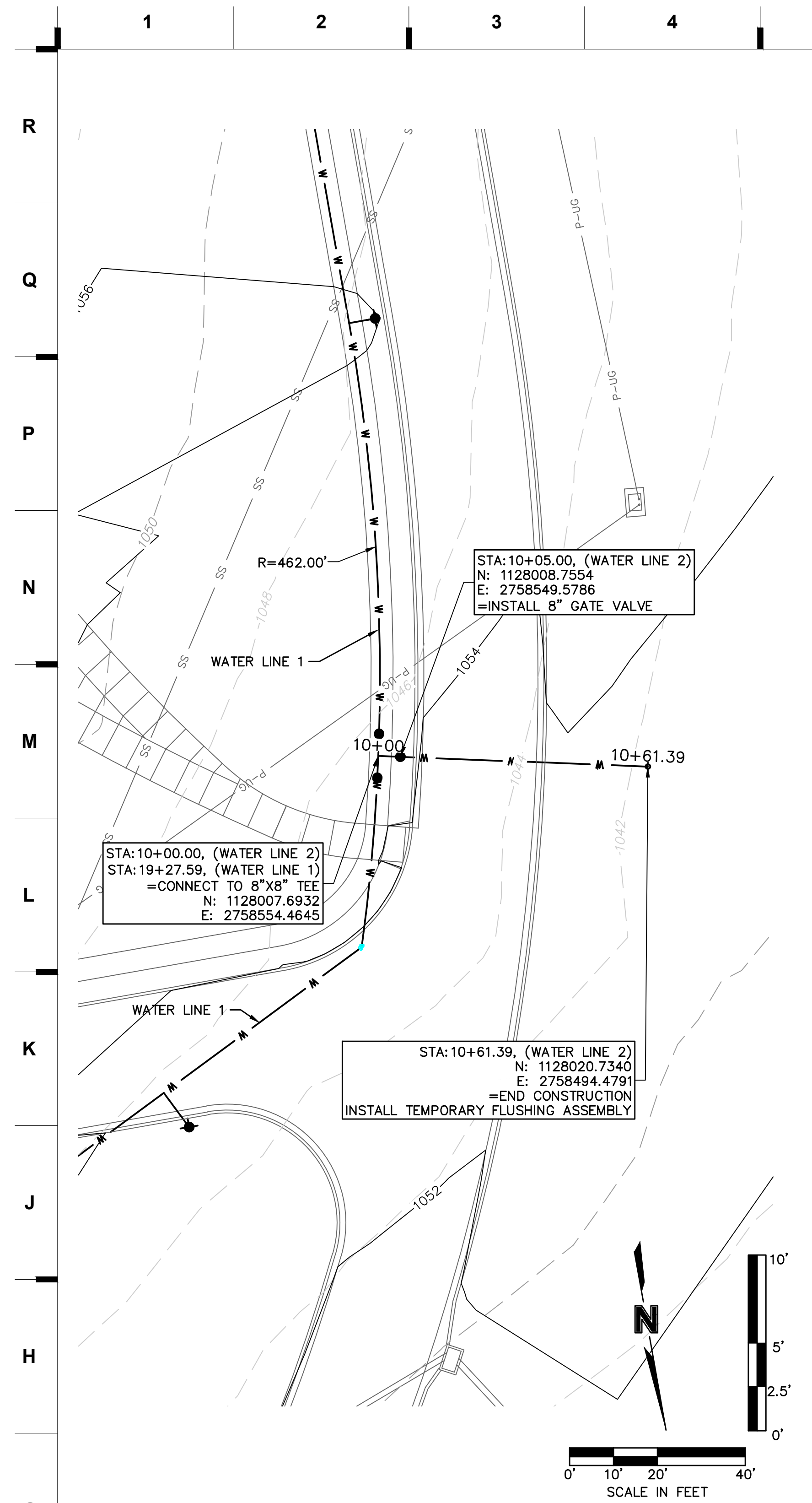


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C703



PLAN LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND
 AND SHEET C103 FOR GENERAL LEGEND

— W — W PROPOSED WATER LINE
 - - - - - EASEMENT/SETBACK BOUNDARY

EASEMENT LEGEND

- AE ACCESS EASEMENT
- DE STORM DRAINAGE EASEMENT
- EE ELECTRICAL EASEMENT
- SB SETBACK
- SE SANITARY SEWER EASEMENT
- VW VARIABLE WIDTH
- WE WATER EASEMENT
- GE GAS EASEMENT

***NOTE**

CONTRACTOR SHALL FILL AND COMPACT TO 95% STANDARD DENSITY TO A POINT 18" MINIMUM ABOVE THE TOP OF PIPE PRIOR TO EXCAVATION FOR THE PIPE.

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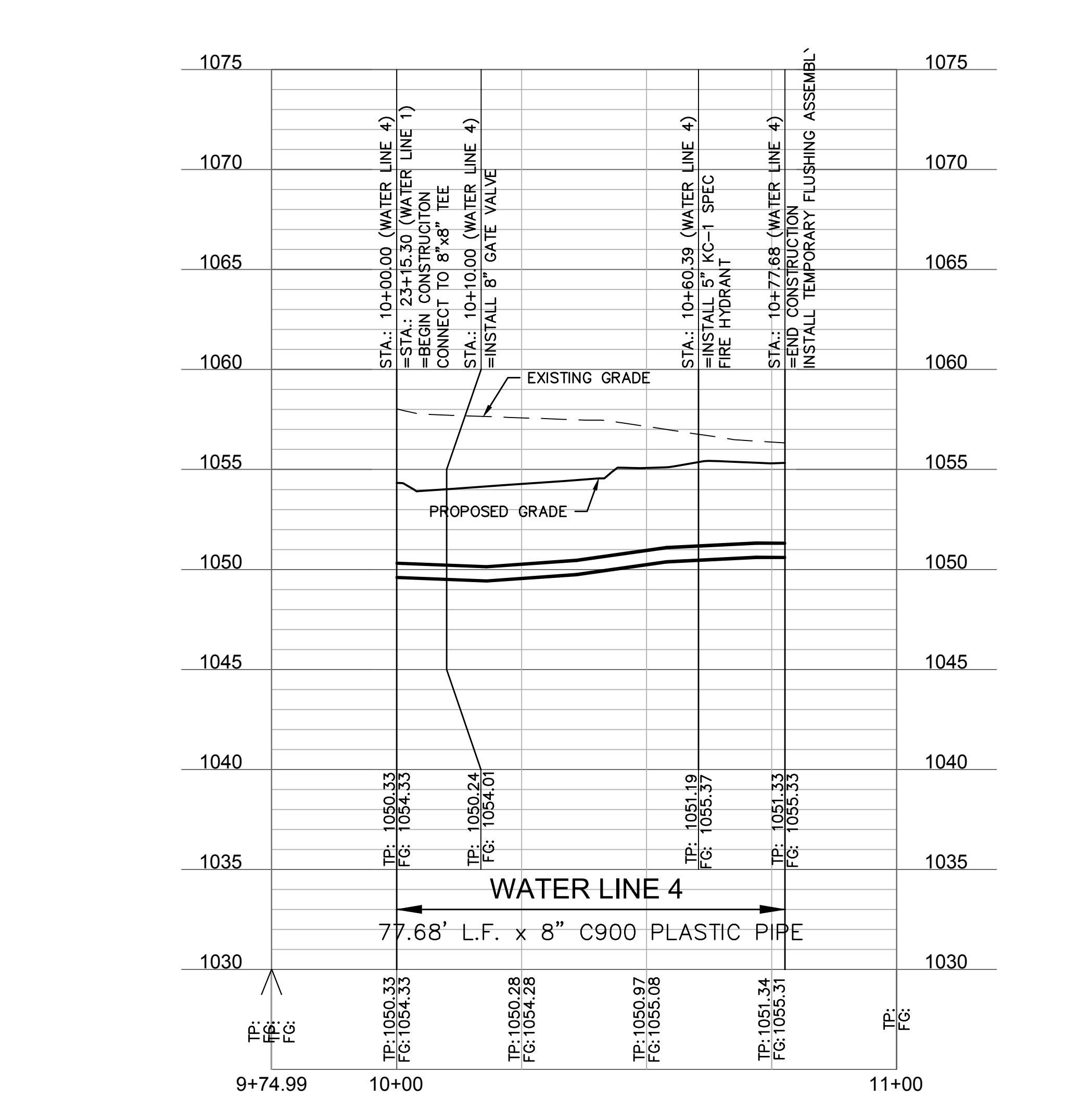
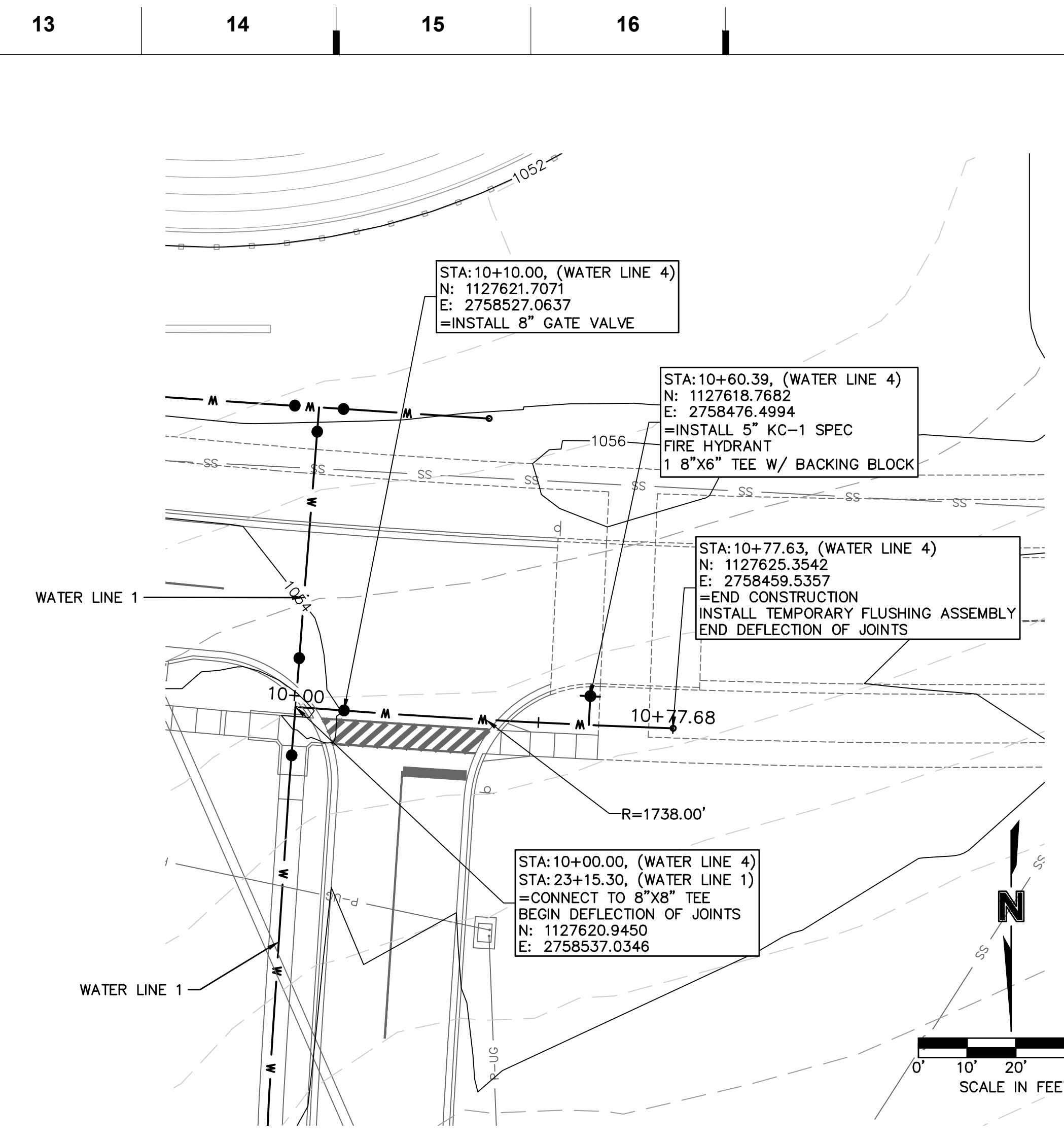
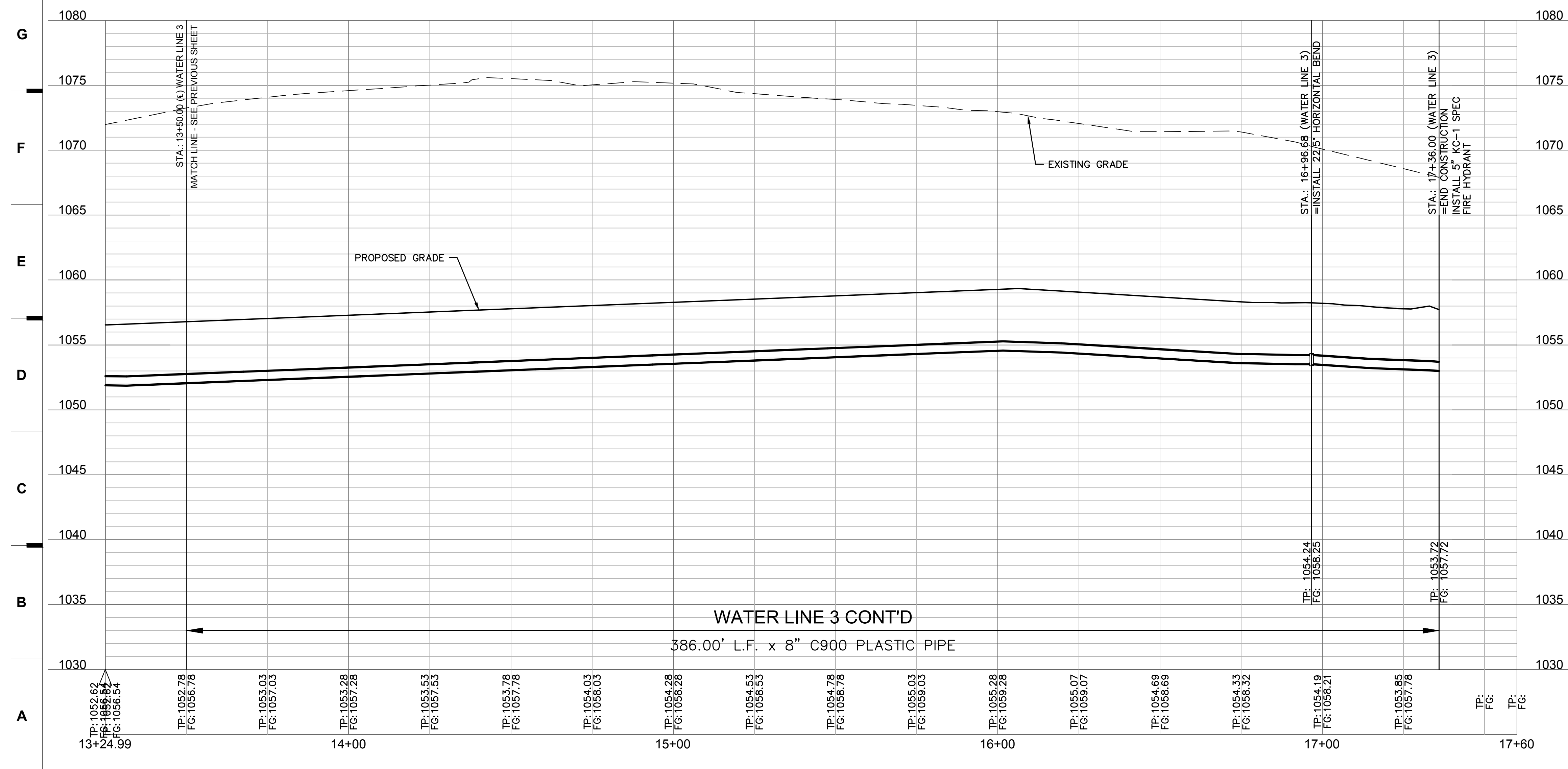
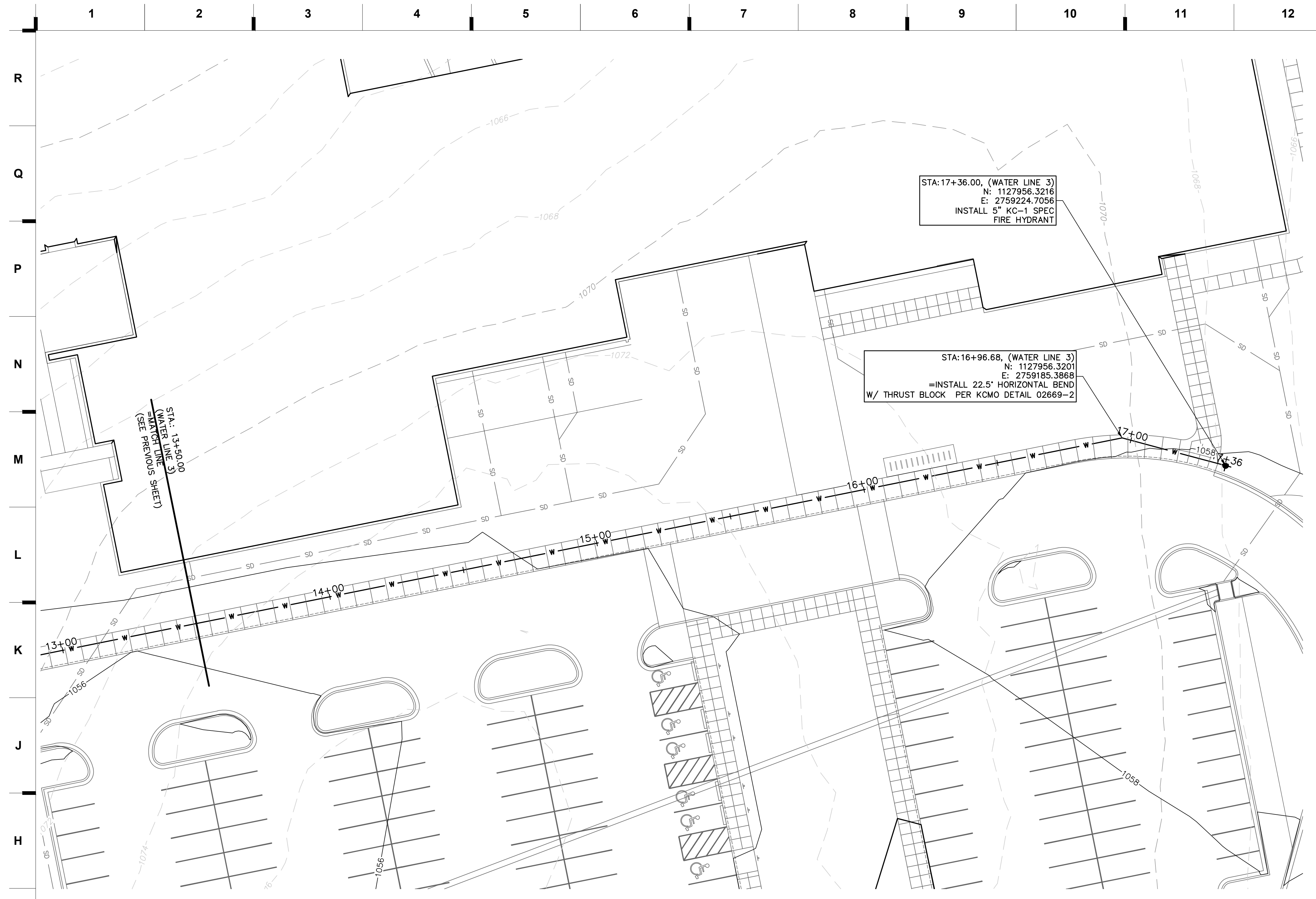
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C704

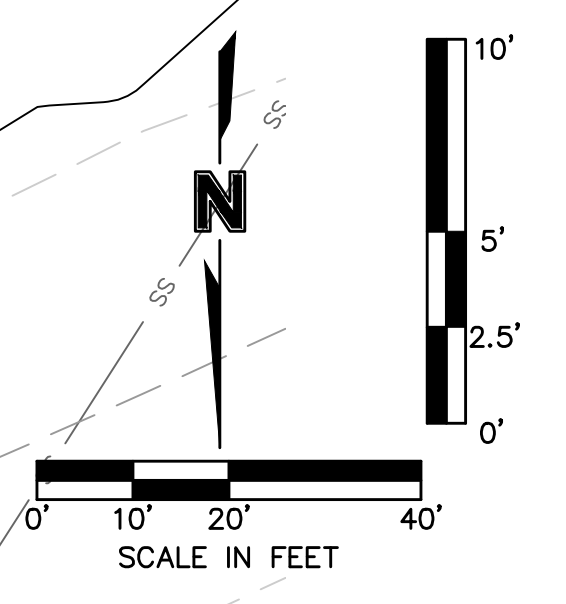
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 DATE: 08.16.2021

WATER MAIN PLAN & PROFILE (LINES 2 & 3)



PLAN LEGEND
 SEE SHEET C102 FOR EXISTING CONDITIONS LEGEND
 AND SHEET C103 FOR GENERAL LEGEND

EASEMENT LEGEND
 AE ACCESS EASEMENT
 DE STORM DRAINAGE EASEMENT
 EE ELECTRICAL EASEMENT
 SB SETBACK
 SE SANITARY SEWER EASEMENT
 VW VARIABLE WIDTH
 WE WATER EASEMENT
 GR GAS EASEMENT



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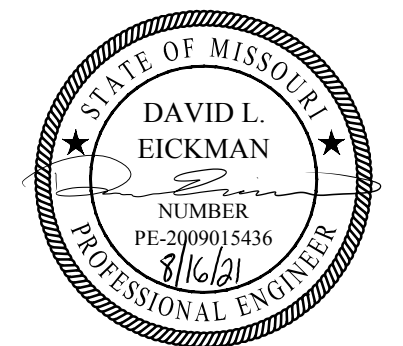
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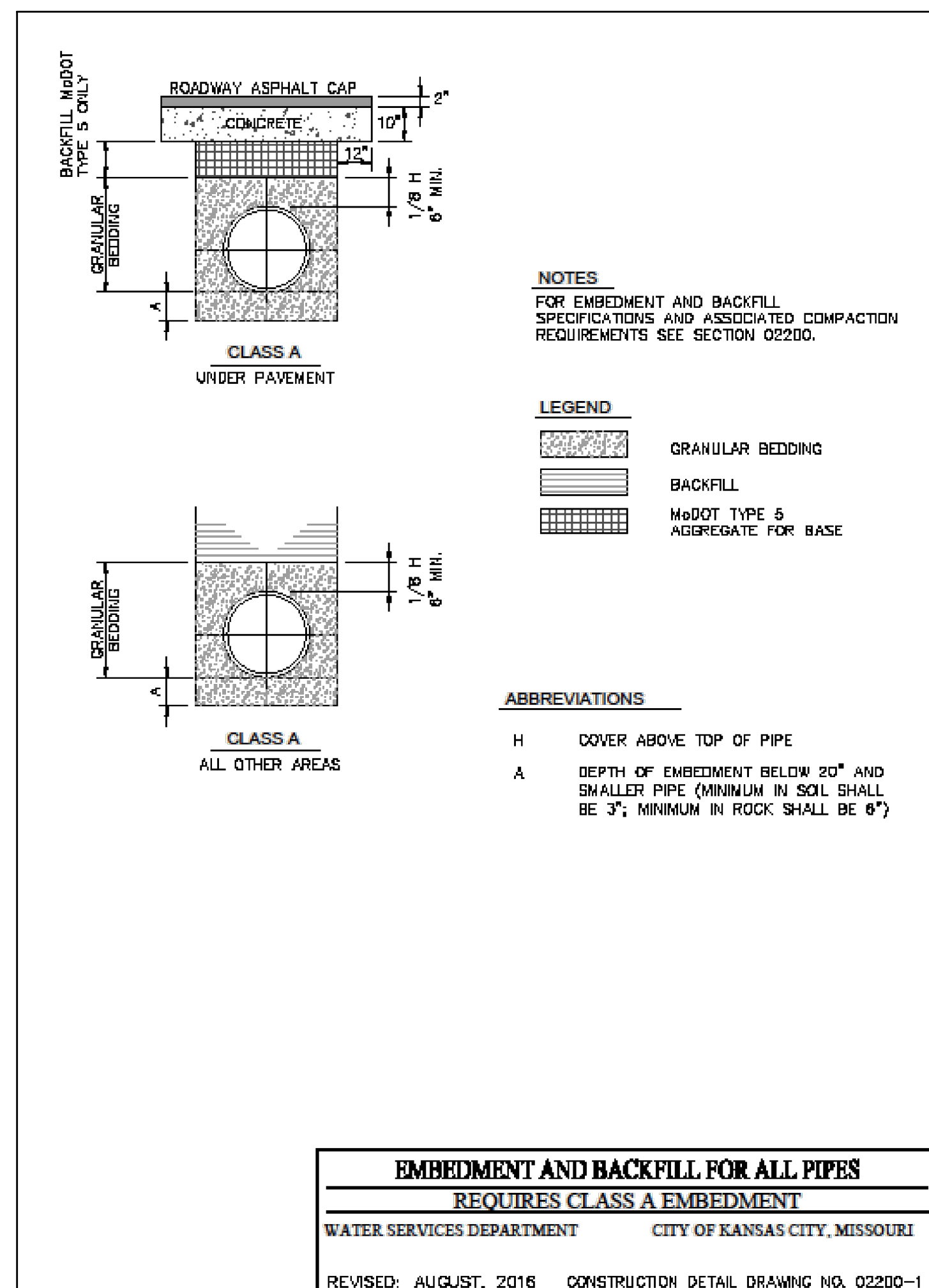
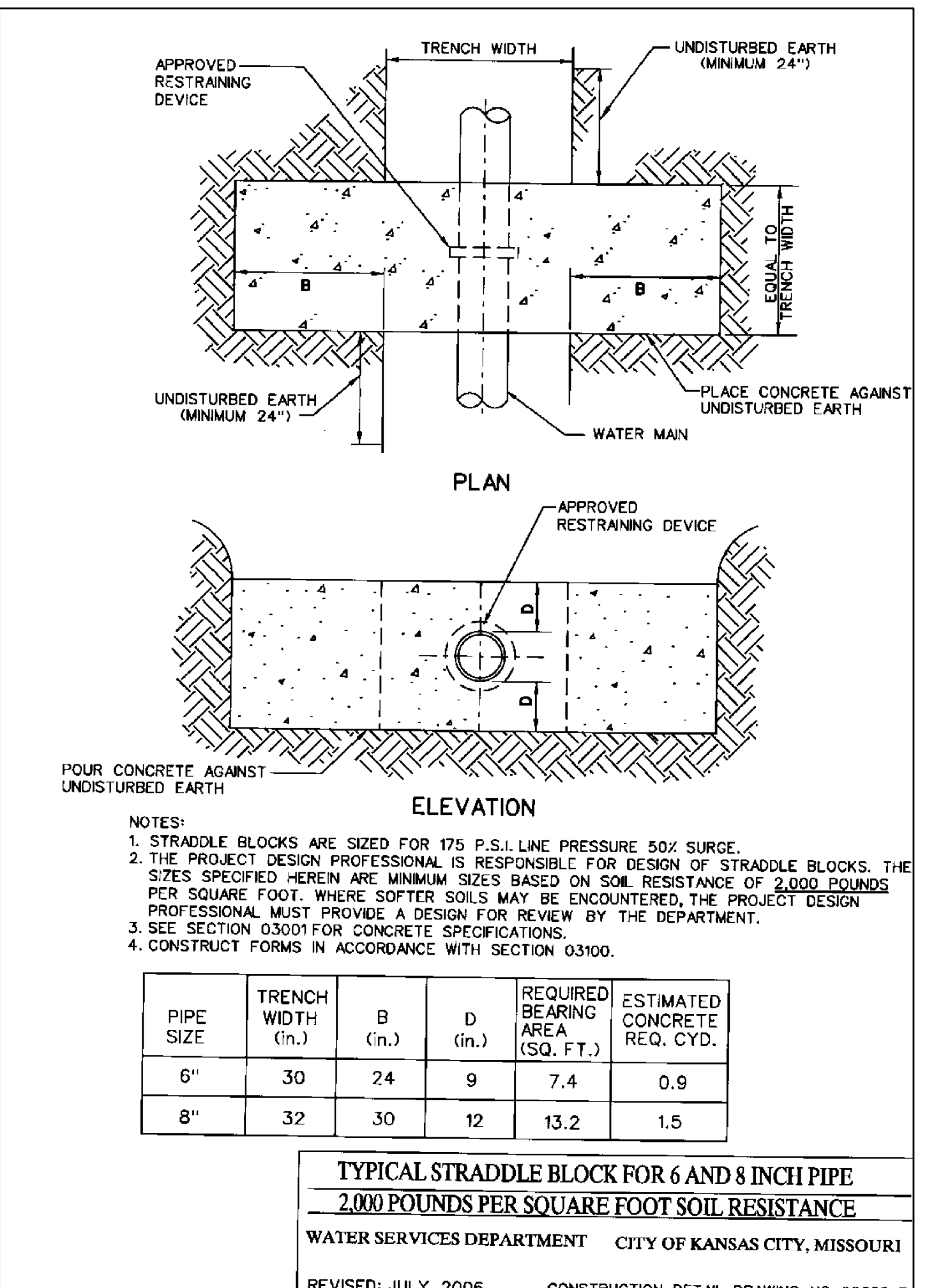
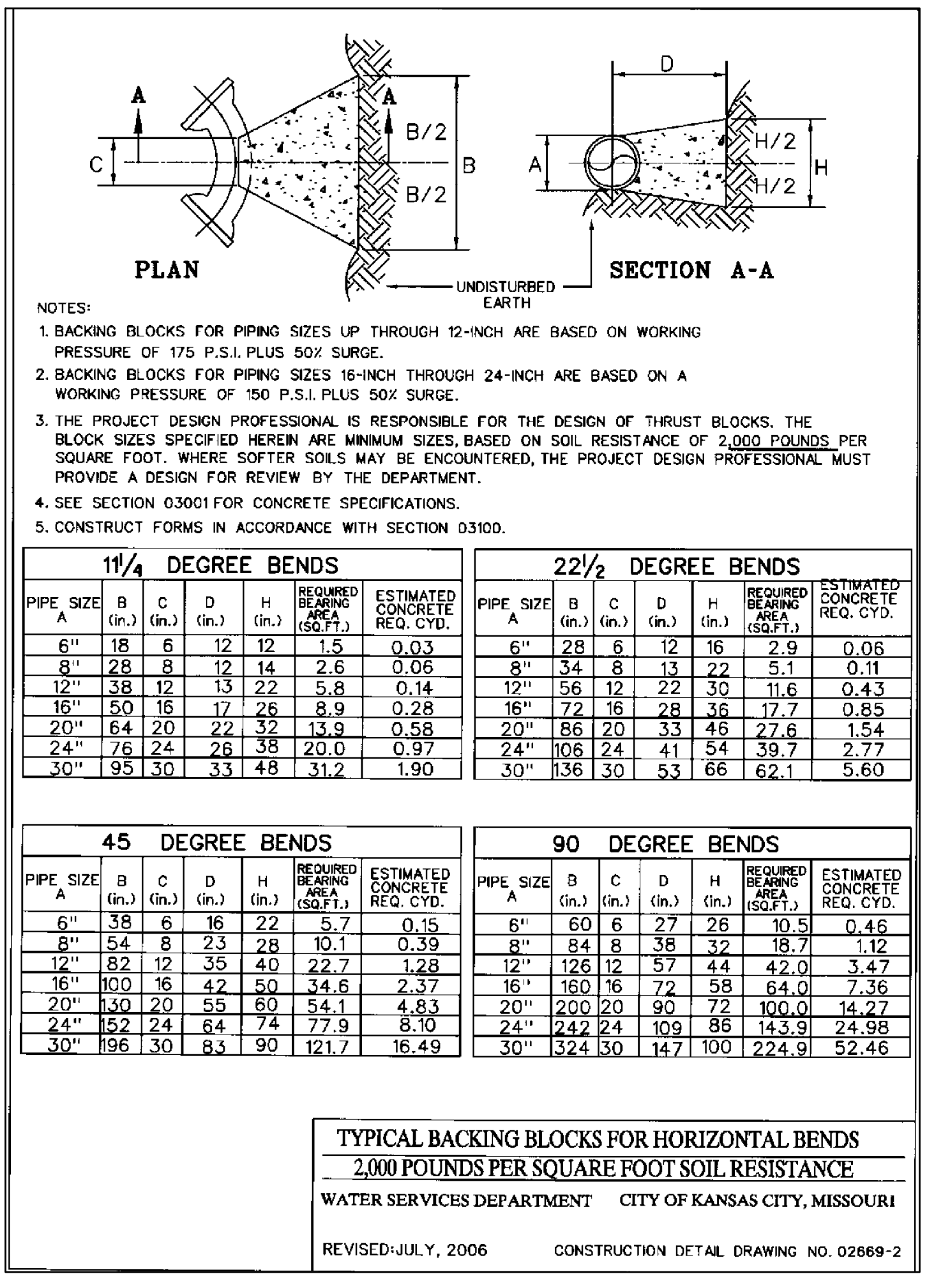
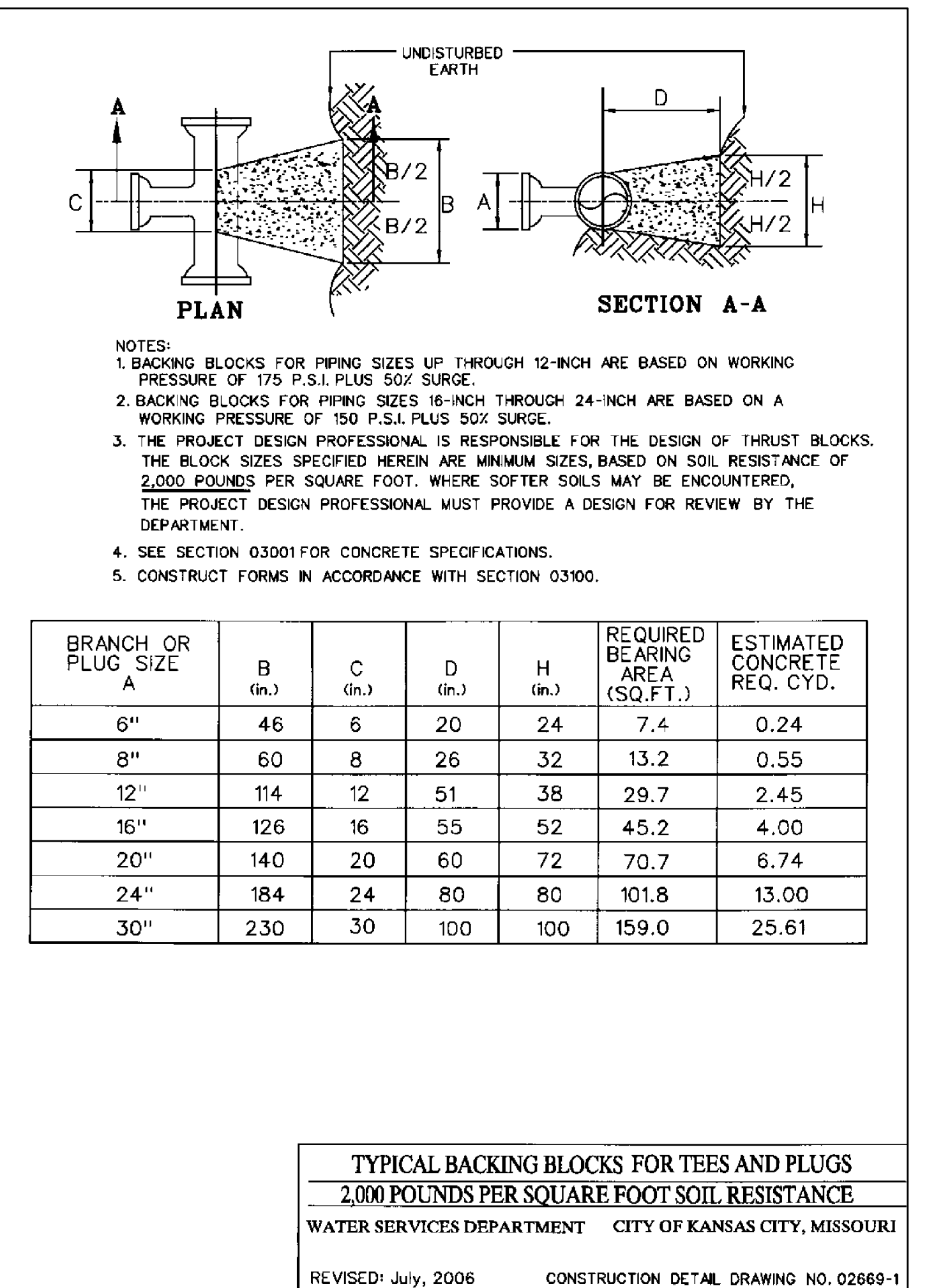
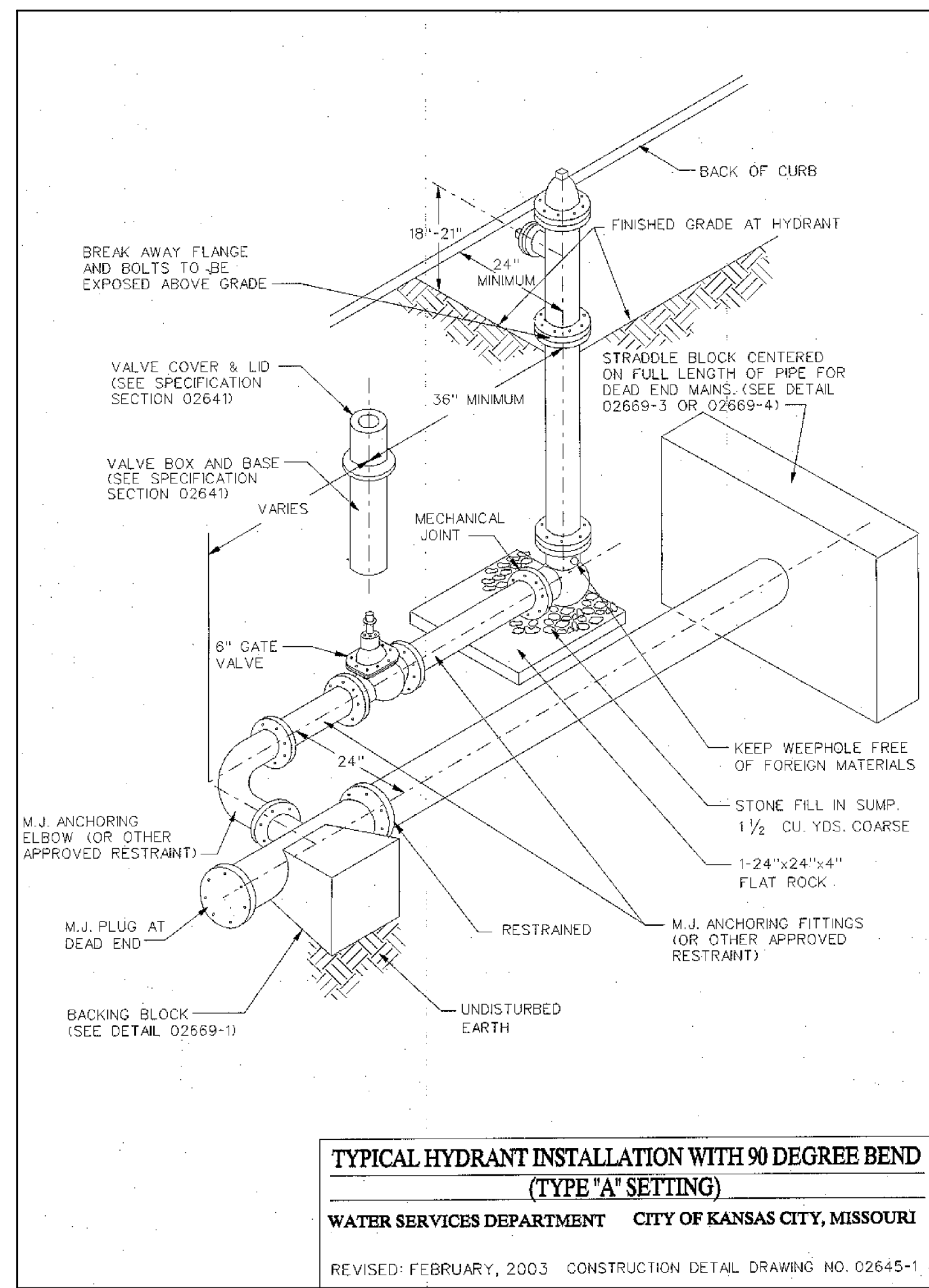
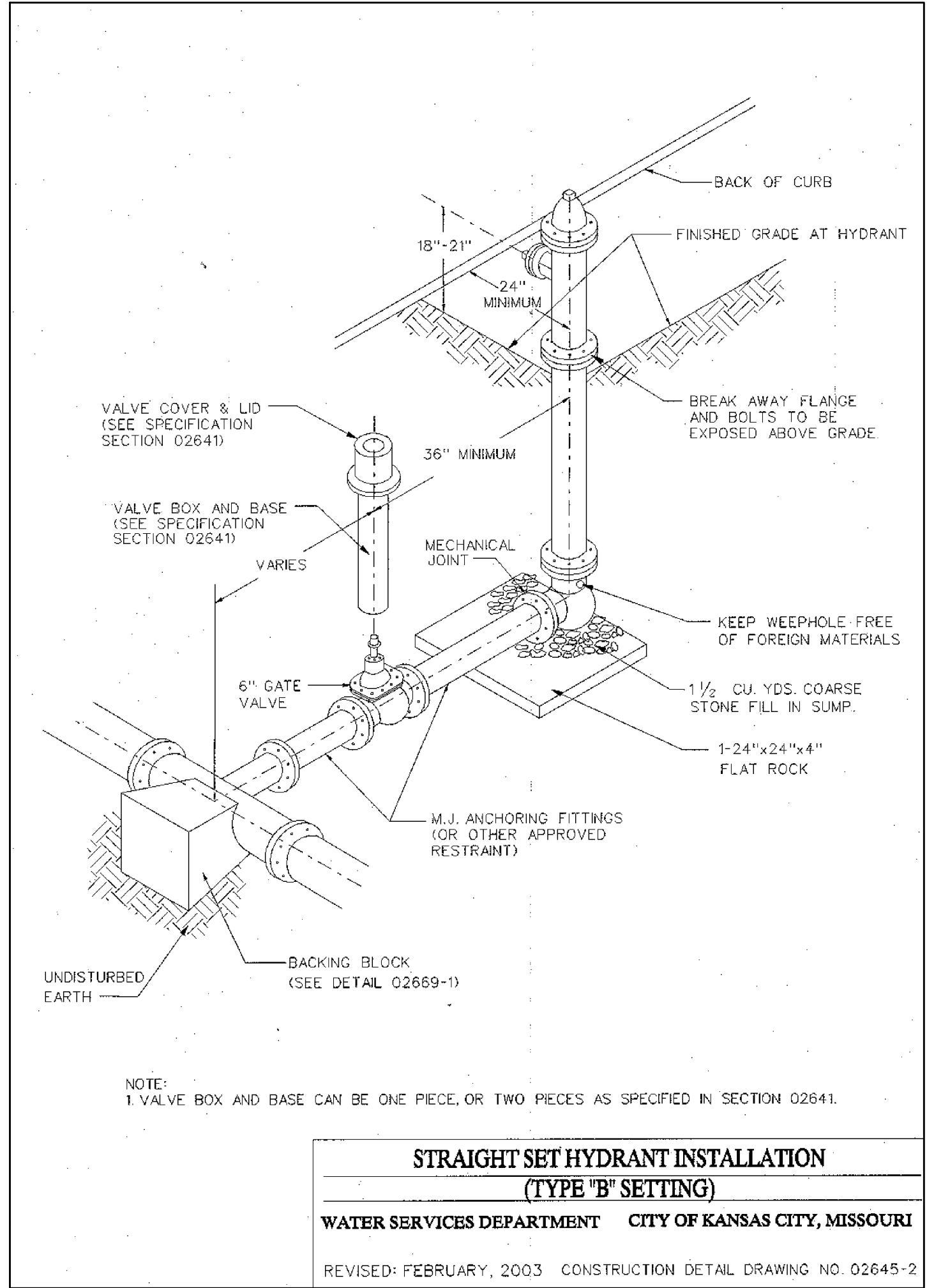
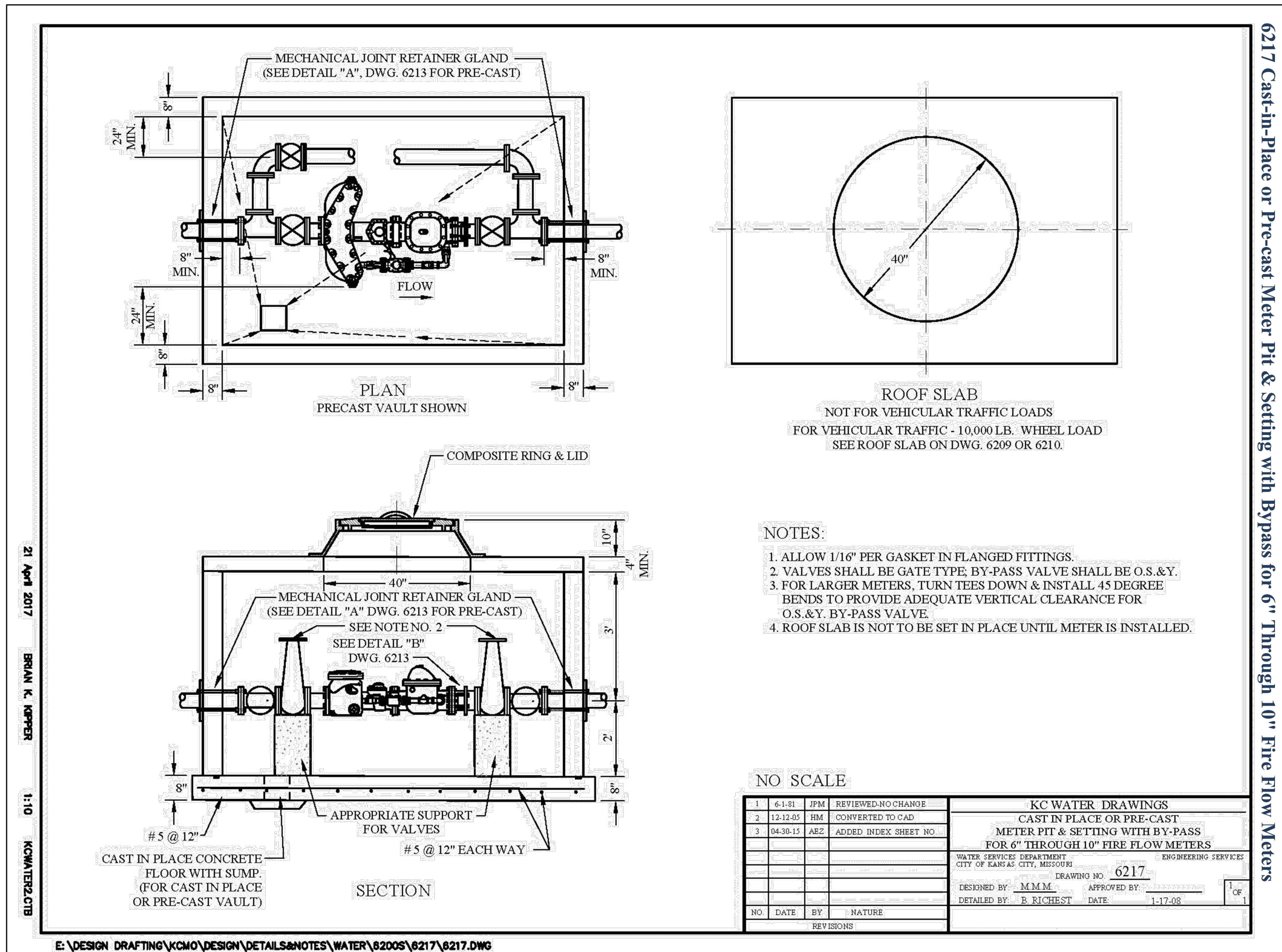
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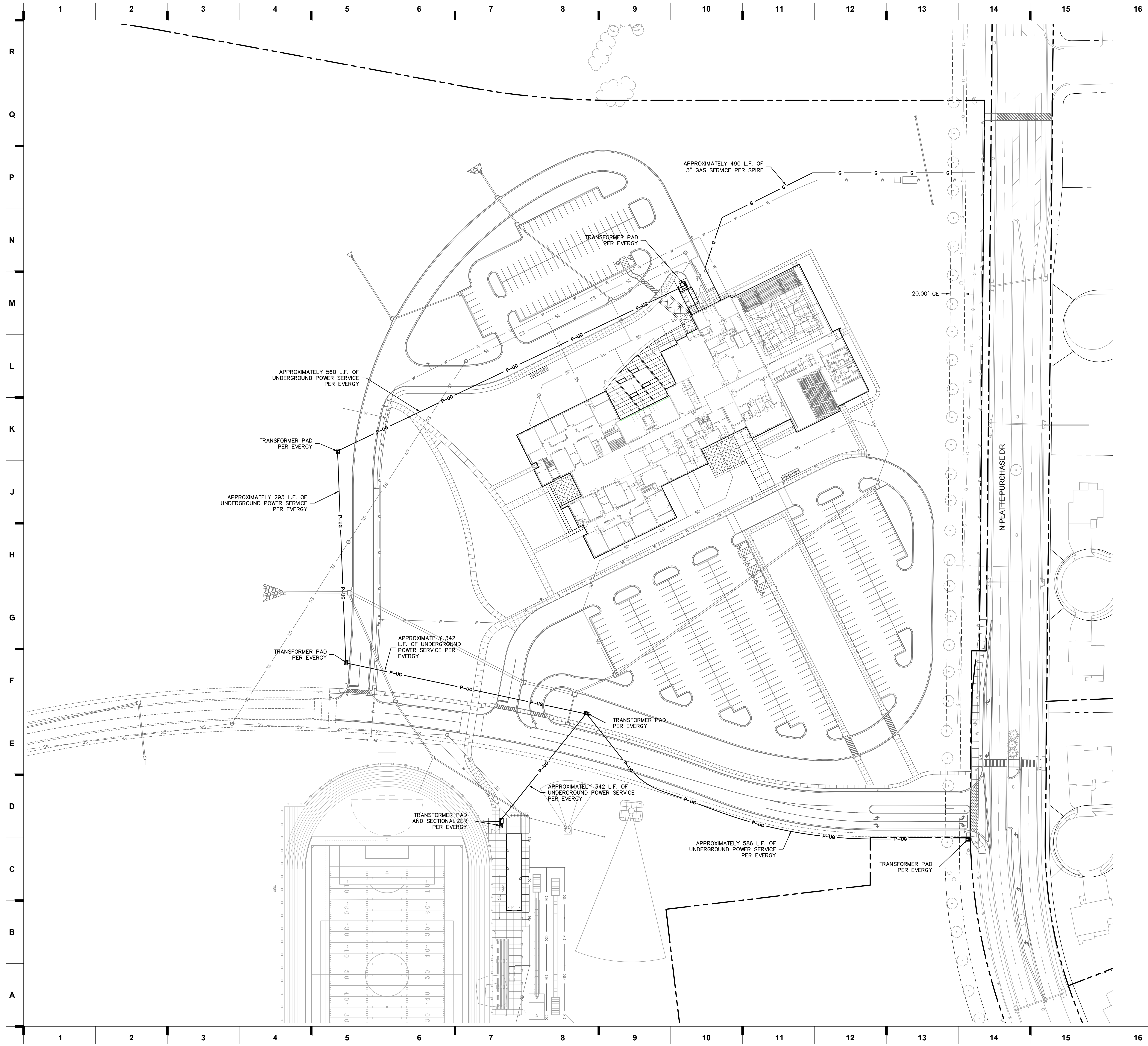
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C706

WATER DETAILS



UTILITY PLAN LEGEND
 SEE SHEET C103 FOR GENERAL LEGEND
 SEE SHEET C102 FOR EXISTING LEGEND
 SEE SHEET C500 FOR STORM SEWER LEGEND
 SEE SHEET C600 FOR SANITARY SEWER LEGEND
 SEE SHEET C700 FOR WATER LEGEND

P-UG PROPOSED POWER CONDUIT
 G PROPOSED GAS SERVICE
 EASEMENT/SETBACK BOUNDARY

EASEMENT LEGEND

AE ACCESS EASEMENT
 DE STORM DRAINAGE EASEMENT
 EE ELECTRICAL EASEMENT
 SB SETBACK
 SE SANITARY SEWER EASEMENT
 VW VARIABLE WIDTH
 WE WATER EASEMENT
 GE GAS EASEMENT

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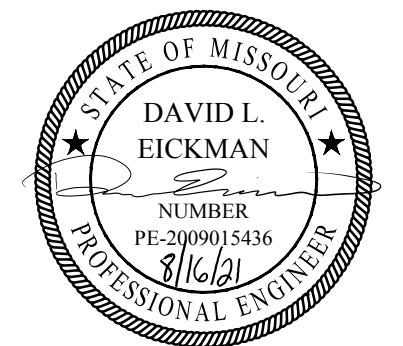
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SITE DEVELOPMENT PACKAGE

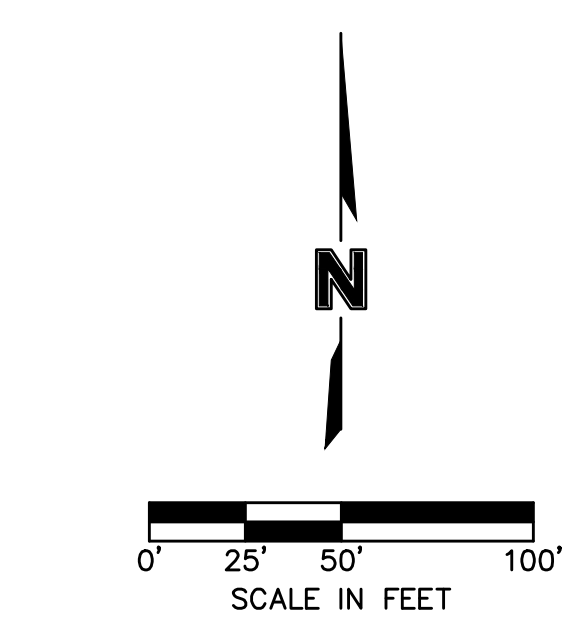
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C800

8/13/2021 10:09:55 AM

Symbol	Label	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Lumen Multiplier	LLF	Wattage
P3		4	Lithonia Lighting	DSX1 LED P4 40K T3M MVOLT	DSX1 LED P4 40K T3M MVOLT	LED	1	DSX1_LED_P4_40K_T3M_MVOLT_T.ies	14073	1	0.9	125
P3-2		8	Lithonia Lighting	DSX1 LED P4 40K T3M MVOLT	DSX1 LED P4 40K T3M MVOLT	LED	1	DSX1_LED_P4_40K_T3M_MVOLT_T.ies	14073	1	0.9	250
S2		17	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	LDRL-SL2-E06-E	RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE (6) LIGHTBARS WITH ACQULED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL	(126) 4000K CCT, 70 CRI LEDs	126	LDRL-SL2-E06-E.ies	139	1	0.9	150.5
S2-2		1	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	LDRL-SL2-E06-E	RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE (6) LIGHTBARS WITH ACQULED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL	(126) 4000K CCT, 70 CRI LEDs	126	LDRL-SL2-E06-E.ies	139	1	0.9	301
S2-A		10	COOPER LIGHTING SOLUTIONS - LUMARK (FORMERLY EATON)	LDRL-SL2-E06-E	RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE (6) LIGHTBARS WITH ACQULED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL	(126) 4000K CCT, 70 CRI LEDs	126	LDRL-SL2-E06-E.ies	139	1	0.9	150.5
P4		1	Lithonia Lighting	DSX1 LED P4 40K T4M MVOLT	DSX1 LED P4 40K T4M MVOLT	LED	1	DSX1_LED_P4_40K_T4M_MVOLT_T.ies	14181	1	0.9	125
A		12	Berberg Lighting	RW404-56L45TS-MDL05	RW404 Series Raata Light Col., 8in dia., 56in long, Frosted Acrylic, Type Spot	56 LEDs	1	RW404-56L45TS-MDL05.ies	6209	1	0.9	98.6

Description	Symbol	Avg	Min	Max	Max/Min	Avg/Min
ROAD	+	1.9 ft	0.2 ft	0.4 ft	15.5:1	4.8:1
STREET	+	1.8 ft	0.4 ft	0.4 ft	10.8:1	3.6:1
TEACHER PARKING	+	1.5 ft	0.4 ft	0.4 ft	11.0:1	3.8:1
PARENT PARKING	+	1.8 ft	0.6 ft	0.3 ft	16.0:1	4.3:1
SOUTH ENTRANCE	+	2.8 ft	0.7 ft	0.4 ft	7.8:1	4.7:1
NORTH ENTRANCE	+	6.0 ft	7.7 ft	3.5 ft	2.2:1	1.7:1

Lumark

DESCRIPTION
The RL LED luminaire provides uncompromising optical performance and outstanding versatility for a wide variety of area and roadway applications. Patented modular LightBAR™ technology delivers uniform and energy-efficient illumination to walkways, parking lots, and roadways. UL/ULC listed for wet locations.

SPECIFICATION FEATURES

Construction
Heavy-duty cast aluminum housing and removable door. 3G vibration rated to ensure strength of construction and longevity in application. Die-cast aluminum door frame features integral hinges for tool-less maintenance access.

Optics
Choice of twelve patented, high-efficiency AcquaLED Optics™ distributions. Optics are precisely designed to shape the light output, maximizing efficiency and application spacing. AcquaLED Optics technology creates consistent distributions with the scalability to meet customized application requirements. Offered Standard in 4000K CCT and 5700K CCT. For the ultimate level of spill light control, an optional house-side shield accessory can be field or factory installed. The house-side shield is designed to seamlessly integrate with the SL2, SL3 or SL4 optics.

Electrical
LED drivers mount to die cast aluminum back housing for optimal heat sinking, operation efficiency, and prolonged life. Standard drivers feature electronic universal voltage 120-277V 50/60Hz, 3A/2V 60Hz or 480V 60Hz operation. 480V is compatible for use with 480V Wye systems only. Greater than 8.0 power factor, less than 20% harmonic distortion, and is suitable for operation in 40°C to 40°C ambient environments. All features are designed standard with 100V/100A common - and differential - mode surge protection. LightBARs feature an IP66 enclosure rating and maintain greater than 96% lumen maintenance at 60,000 hours per IESNA TM-21. Occupancy sensor and dimming options available.

Mounting
Two bolt-on-bracket adaptor with cast in pipe stop and leveling steps. Fixed in-place bracketed leads around 1 1/4" or 2" mounting arms.

Finish
Components finished in a standard grey, five-stage super TiGIC powder coat paint, 2.5 mil nominal thickness for superior protection against fade and wear. Consult your lighting representative at Cooper Lighting Solutions for a complete selection of standard colors including black and bronze. RAL and custom color matches available.

Warranty
Five-year warranty.

1 - LightBARs LED ROADWAY LUMINAIRE

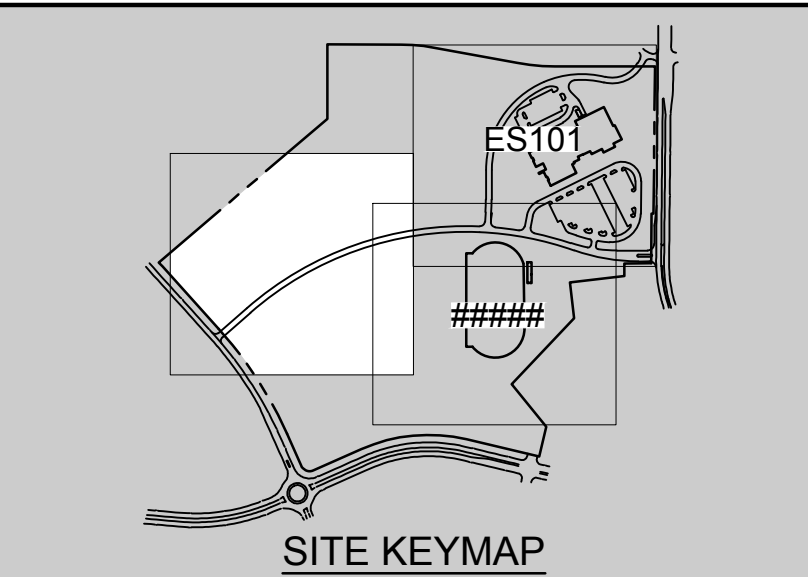
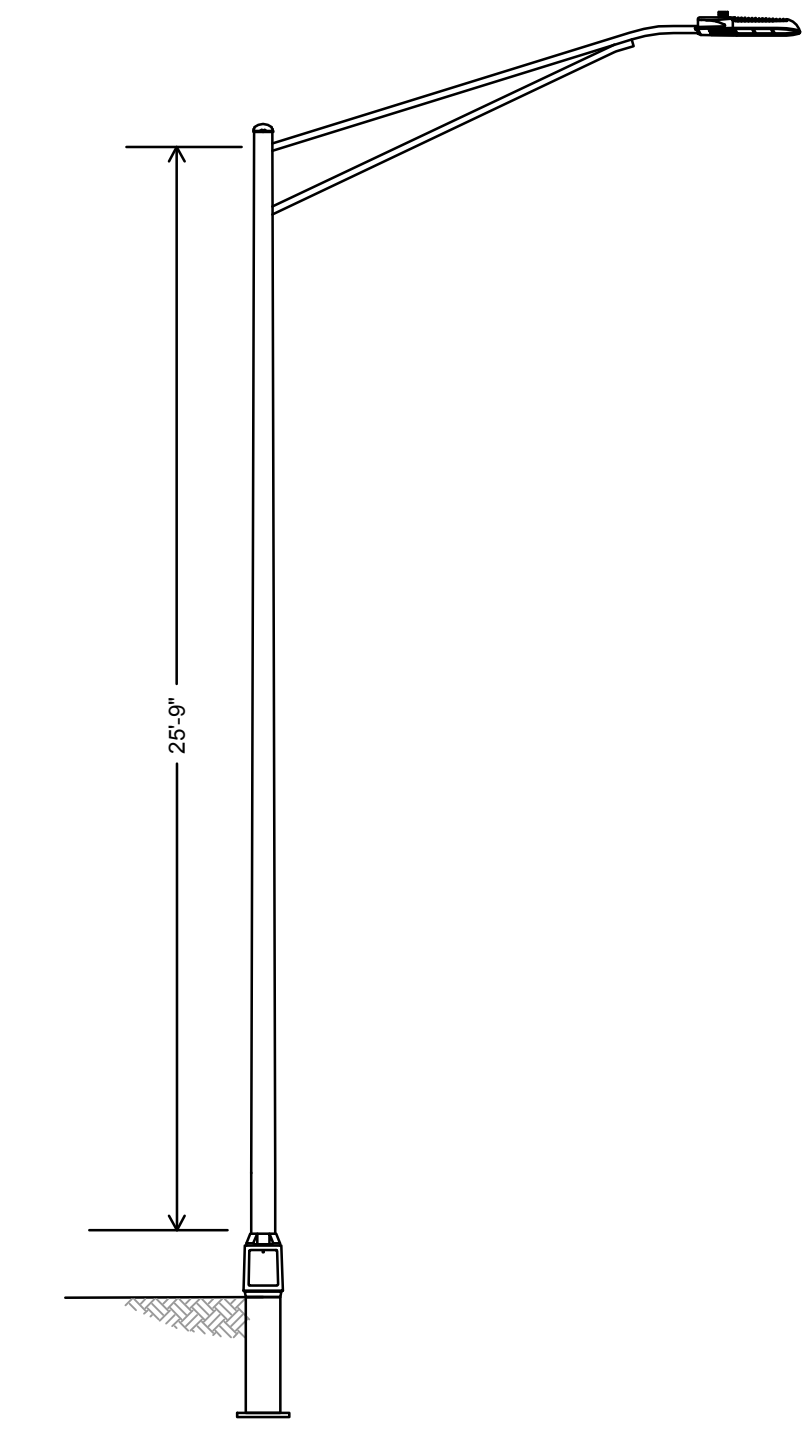
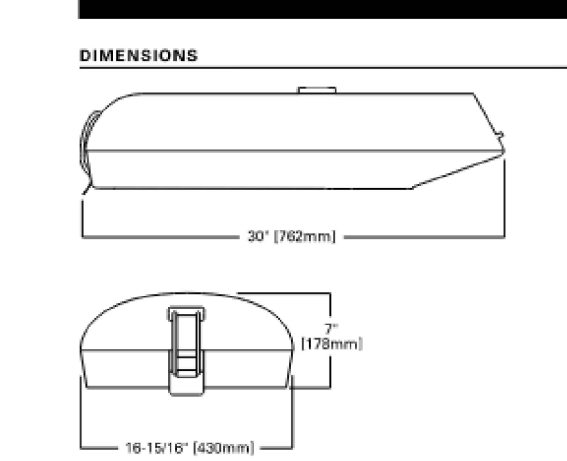
CERTIFICATION DATA
UL Listed
UL918 Listed Component
100 Volt
IP66 LightBAR
30' Minimum Road

ENERGY DATA
Electronics LED Driver
3.0 W Power Factor
30% Total Harmonic Distortion
100-277V/60 & 277V/50Watts
4000K CCT
40°C Minimum Temperature
40°C Ambient Temperature Rating
50°C Optional Ambient Temperature Rating

EPA
Effective Projected Area: (Sq. Ft.) 4.9

SHIPPING DATA
Approximate Net Weight: 26 lbs. (11.81 kg)

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1 SITE LIGHTING PHOTOMETRICS PLAN
SCALE: 1" = 40'-0"

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Architecture # 0000151
Expiring # 2020/03/31

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SITE DEVELOPMENT

Platte County New Middle School
Platte County School District
N Platte Purchase Drive & NW 95th,
Kansas City, MO 64154

REVISIONS:

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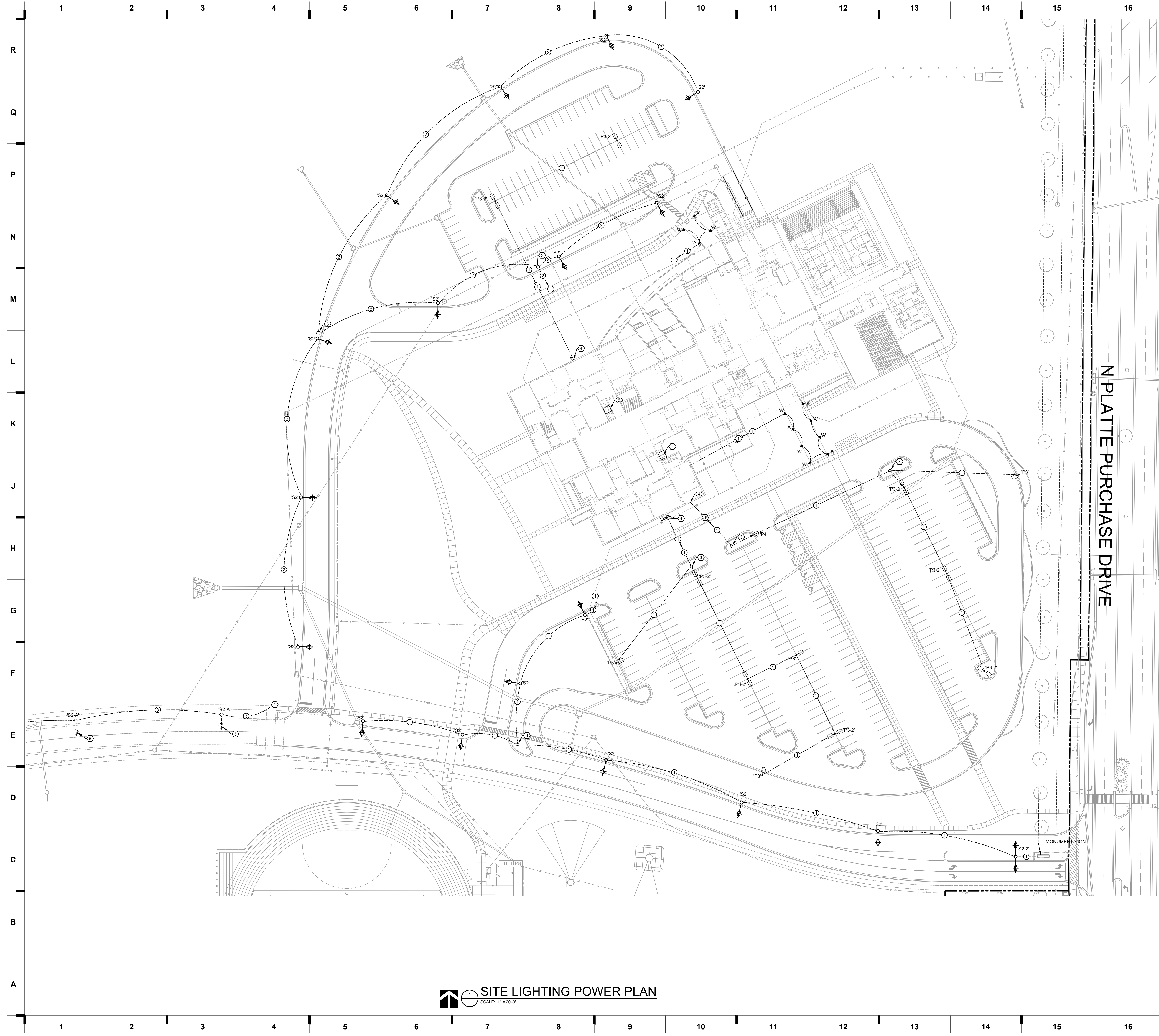
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ES102

JOB NO: 20021
DRAWN BY: SH
CHECKED BY: TD
DATE: 08.16.2021

PROFESSIONAL ENGINEER
TIMOTHY C. W. DANNER
NUMBER
PE-0019031265

The Professional Architect and Affiant in the above shall only be the holder and both shown on this plan. All drawings, specifications or other documents not printed on this plan shall be considered approved by the architect and the architect shall be deemed to have approved the same. The architect shall not be responsible for the accuracy of the information shown on this plan.



GENERAL NOTES

- A. TO FEDERAL, STATE, AND LOCAL STATUTES, NOTIFY KANSAS ONE-CALL SYSTEM, INC. AT LEAST 48 HOURS PRIOR TO ANY DIGGING, TRENCHING, EXCAVATION, ETC.
- B. INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND AND OTHER UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING DETERMINATION OF TYPE AND LOCATION OF SAME AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
- C. FIELD VERIFY LOCATION OF ALL UTILITIES PRIOR TO BEGINNING WORK. ANY INTERFERENCE SHALL BE BROUGHT TO ATTENTION OF THE ARCHITECT AND ENGINEER FOR DIRECTION.
- D. PROVIDE EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT EACH BRANCH CIRCUIT. CONDUCTOR MAY NOT BE INDICATED GRAPHICALLY.
- E. REFER TO LIGHTING FIXTURE SCHEDULE FOR ADDITIONAL INFORMATION.

SHEET KEYNOTES

- 1. ROUTE NEW LIGHTING HOME RUN TO A SPARE 20A/1P CIRCUIT BREAKER IN 277V PANELBOARD. LIGHTING CIRCUIT TO BE ROUTED THROUGH TIME CLOCK.
- 2. APPROXIMATE LOCATION OF 277V PANEL BOARD FOR EXTERIOR LIGHTING CIRCUIT. REFER TO INTERIOR PLANS FOR EXACT LOCATION AND CONTROL SCHEME. EXTERIOR LIGHTING TO BE CONTROLLED BY TIME/CLOCK PHOTOCELL.
- 3. IN GRADE JUNCTION BOX. REFER TO JUNCTION BOX DETAILS FOR ADDITIONAL INFORMATION. DETERMINE EXACT LOCATION AND QUANTITY FOR ROUTING NEW LIGHTING CIRCUITS.
- 4. REFER TO INTERIOR BUILDING PLANS FOR ROUTING IN BUILDING.
- 5. STREET LIGHT POLE TO BE PART OF BID ALTERNATE.

FEEDER SCHEDULE

- 1. (2)-#10 AND (1)-#10 GROUND IN 1" CONDUIT.
- 2. (2)-#8 AND (1)-#8 GROUND IN 1" CONDUIT.
- 3. (2)-#6 AND (1)-#6 GROUND IN 1" CONDUIT.

N PLATTE PURCHASE DRIVE

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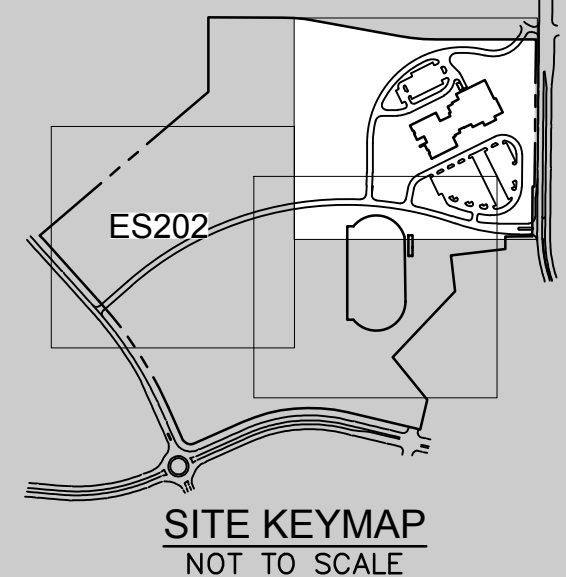
SITE DEVELOPMENT

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Platte County School District
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REVISIONS:

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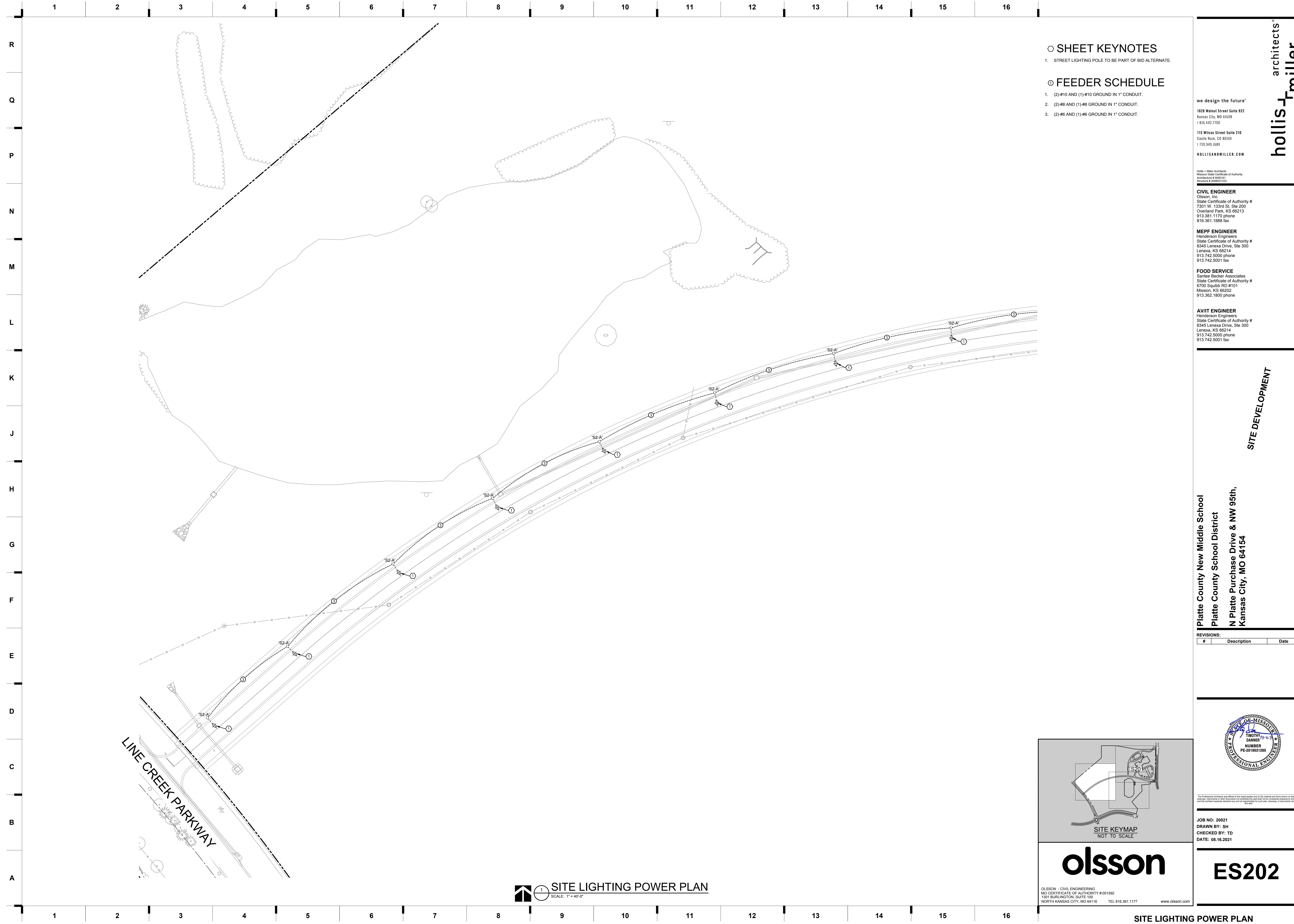
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SITE LIGHTING POWER PLAN
SCALE: 1" = 20'-0"

4/8/2021 7:41:42 AM



○ SHEET KEYNOTES

1. STREET LIGHTING POLE TO BE PART OF BID ALTERNATE.

○ FEEDER SCHEDULE

1. (2)-#10 AND (1)-#10 GROUND IN 1" CONDUIT.
2. (2)-#8 AND (1)-#8 GROUND IN 1" CONDUIT.
3. (2)-#6 AND (1)-#6 GROUND IN 1" CONDUIT.

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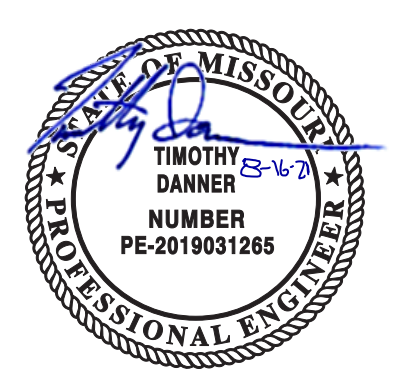
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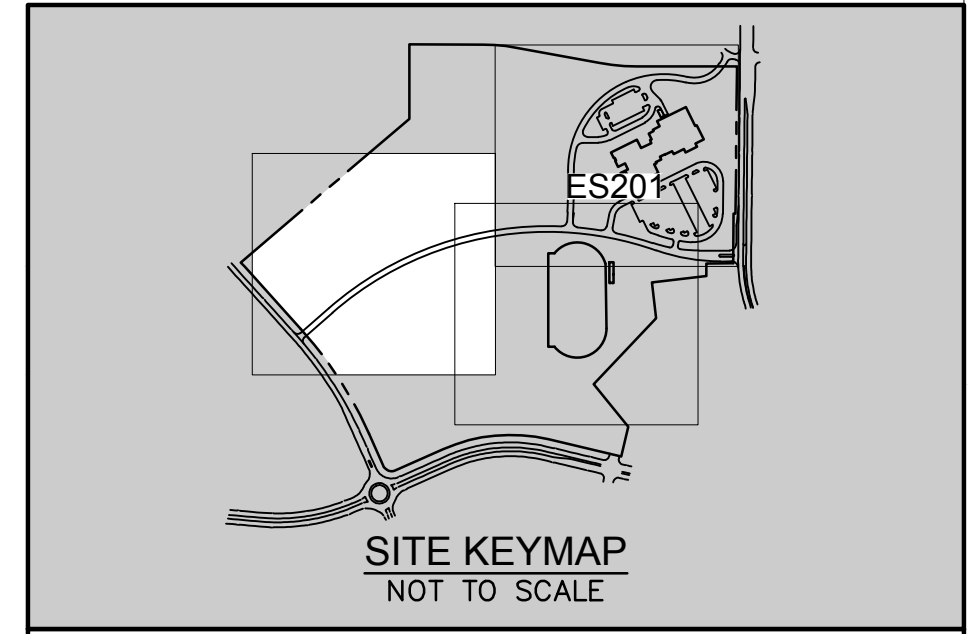
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#	Description	Date



The Professional Architect and Affiliates of the State of Missouri are hereby notified that the seal and stamp shown on this sheet are the property of the Missouri State Board of Professional Engineers and are to be used only for the purpose of certifying the work of the professional engineer shown on the seal and stamp. Any other use of the seal and stamp is prohibited.

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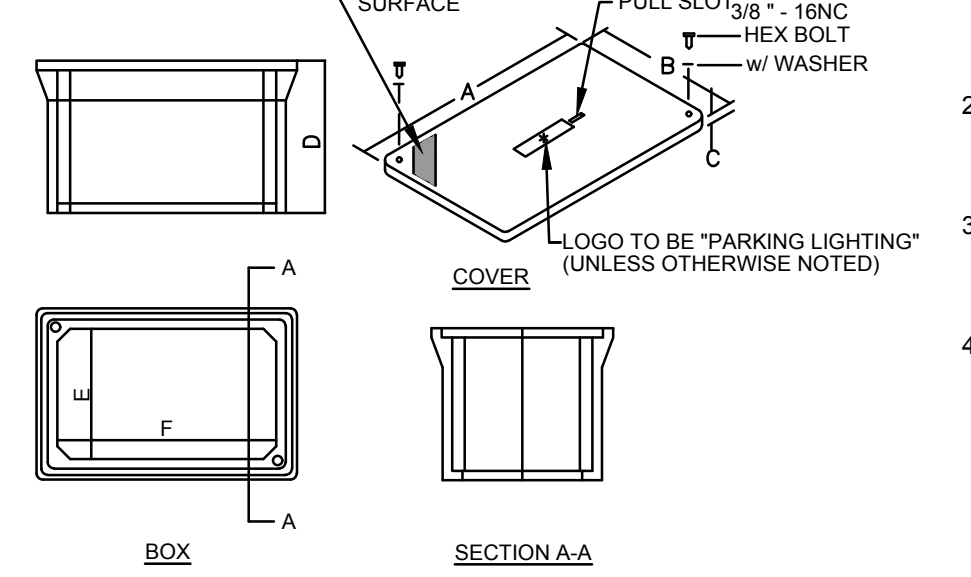
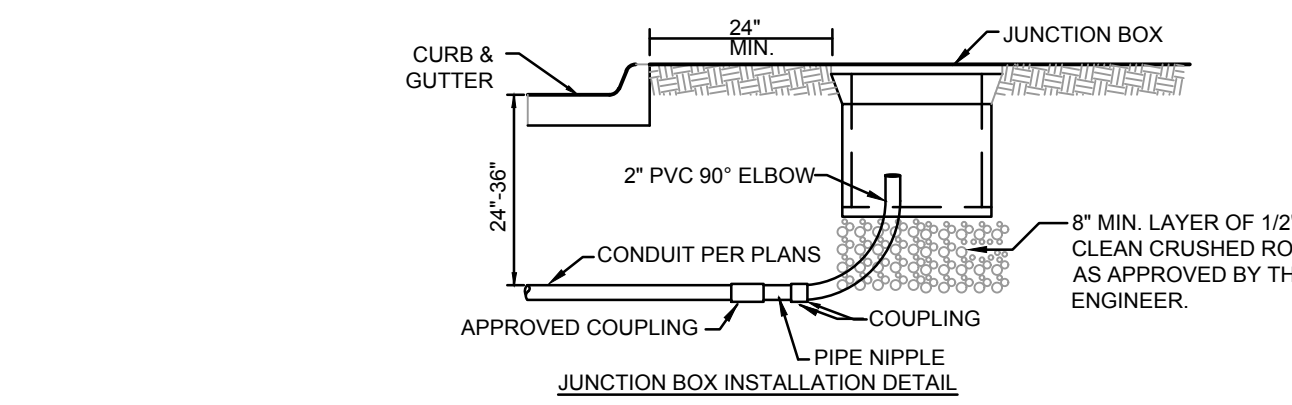
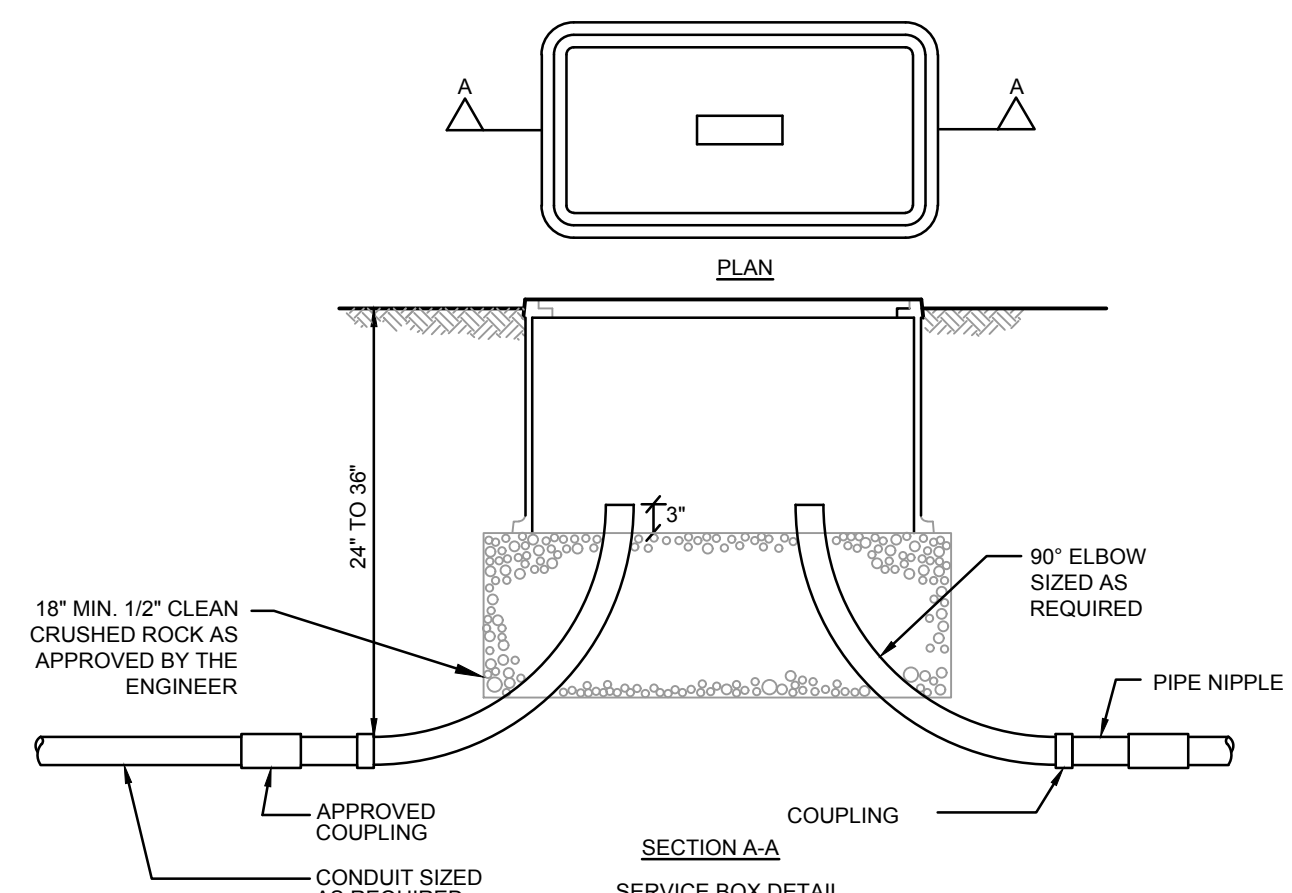
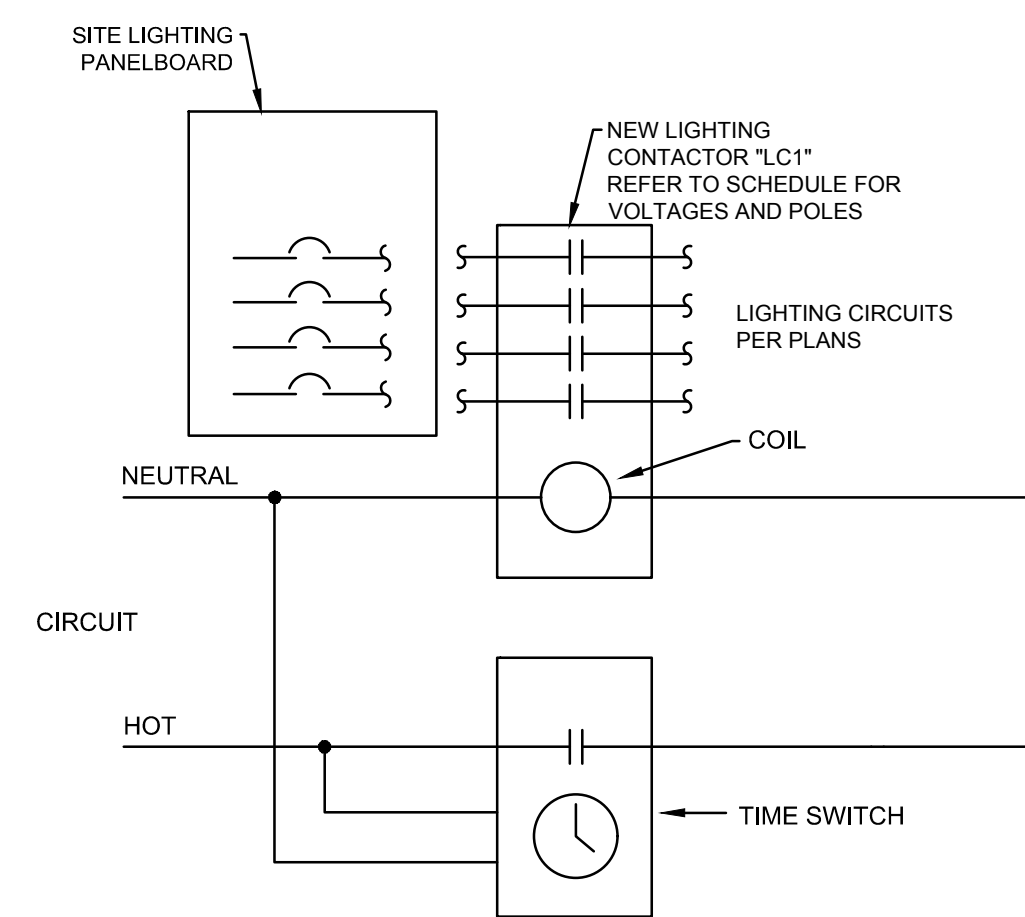
ES202

1 SITE LIGHTING POWER PLAN
 SCALE: 1" = 40'-0"

LIGHT FIXTURE SCHEDULE

SYMBOL	TYPE	DESCRIPTION	LOCATION	DISTRIBUTION	MANUFACTURER & CAT. No.	LAMPS	BALLAST	VOLTS/	ADDITIONAL
						QUAN./TYPE	QUAN./TYPE	WATTS	
	P3	LED AREA LIGHT FIXTURE ON 25'-0" POLE WITH CONCRETE BASE.	PARKING LOT	TYPE 3	LITHONIA LIGHTING# DSX1-LED-P4-40K-T3M-MVOLT-SPA-DBLXD BASE WITH POLE POLE: SSS-25-4G-DM19AS-VD-DLXD	N/A LED 4000K / 80 CRI	N/A DRIVER	MVOLT. 125	①② ③
	P3-2	LED DOUBLE HEAD AREA LIGHT FIXTURE ON 25'-0" POLE WITH CONCRETE BASE.	PARKING LOT	TYPE 3	LITHONIA LIGHTING# DSX1-LED-P4-40K-T3M-MVOLT-SPA-DBLXD BASE WITH POLE POLE: SSS-25-4G-DM28AS-VD-DLXD	N/A LED 4000K / 80 CRI	N/A DRIVER	MVOLT. 250	①② ③
	P4	LED AREA LIGHT FIXTURE ON 25'-0" POLE WITH CONCRETE BASE.	PARKING LOT	TYPE 4	LITHONIA LIGHTING# DSX1-LED-P4-40K-T3M-MVOLT-SPA-DBLXD BASE WITH POLE POLE: SSS-25-4G-DM28AS-VD-DLXD	N/A LED 4000K / 80 CRI	N/A DRIVER	MVOLT. 125	①② ③
	S2	LED COBRHEAD ON 6FT HEAD AND 30FT POLE.	SITE	TYPE 2	LUMARK# LDRL-SL2-E06-E-AP	N/A LED 3000K / 70 CRI	N/A DRIVER	MVOLT. 150	①② ③④
	S2-2	LED DOUBLE HEAD COBRHEAD ON 6FT HEAD AND 30FT POLE.	SITE	TYPE 2	LUMARK# LDRL-SL2-E06-E-AP	N/A LED 3000K / 70 CRI	N/A DRIVER	MVOLT. 300	①② ③④
	S2-A	LED COBRHEAD ON 6FT HEAD AND 30FT POLE.	SITE	TYPE 2	LUMARK# LDRL-SL2-E06-E-AP	N/A LED 3000K / 70 CRI	N/A DRIVER	MVOLT. 150	①② ③④
	A	8" DIAMETER, 10FT LED LIGHT COLUMN.	ENTRANCE WALKWAY	TYPE 5	STERNBERG# FT-10-RV404-86L-40-MDH05-	N/A LED 4000K / 80 CRI	N/A DRIVER	MVOLT. 125	①② ③

- NOTES**
- PROVIDE ALL COMPONENTS TO MAKE A COMPLETE ASSEMBLY. THIS WOULD INCLUDE, BUT NOT BE LIMITED TO, ARM, MOUNTING BRACKETS, POLE BASE COVER, ANCHOR BOLTS, TEMPLATE, BASE, HAND HOLE, SEPARATE CIRCUIT OUTLET, ETC.
 - PROVIDE CONCRETE BASE, PER DETAIL.
 - BASIS OF DESIGN FINISH COLOR IS BLACK. CONFIRM COLOR OF ALL FIXTURES AND POLES WITH SITE DEVELOPMENT STANDARDS. CONFIRM VOLTAGE WITH BUILDING INTERIOR PLANS.
 - REFER TO POLE AND ARM DETAIL FOR ADDITIONAL INFORMATION.



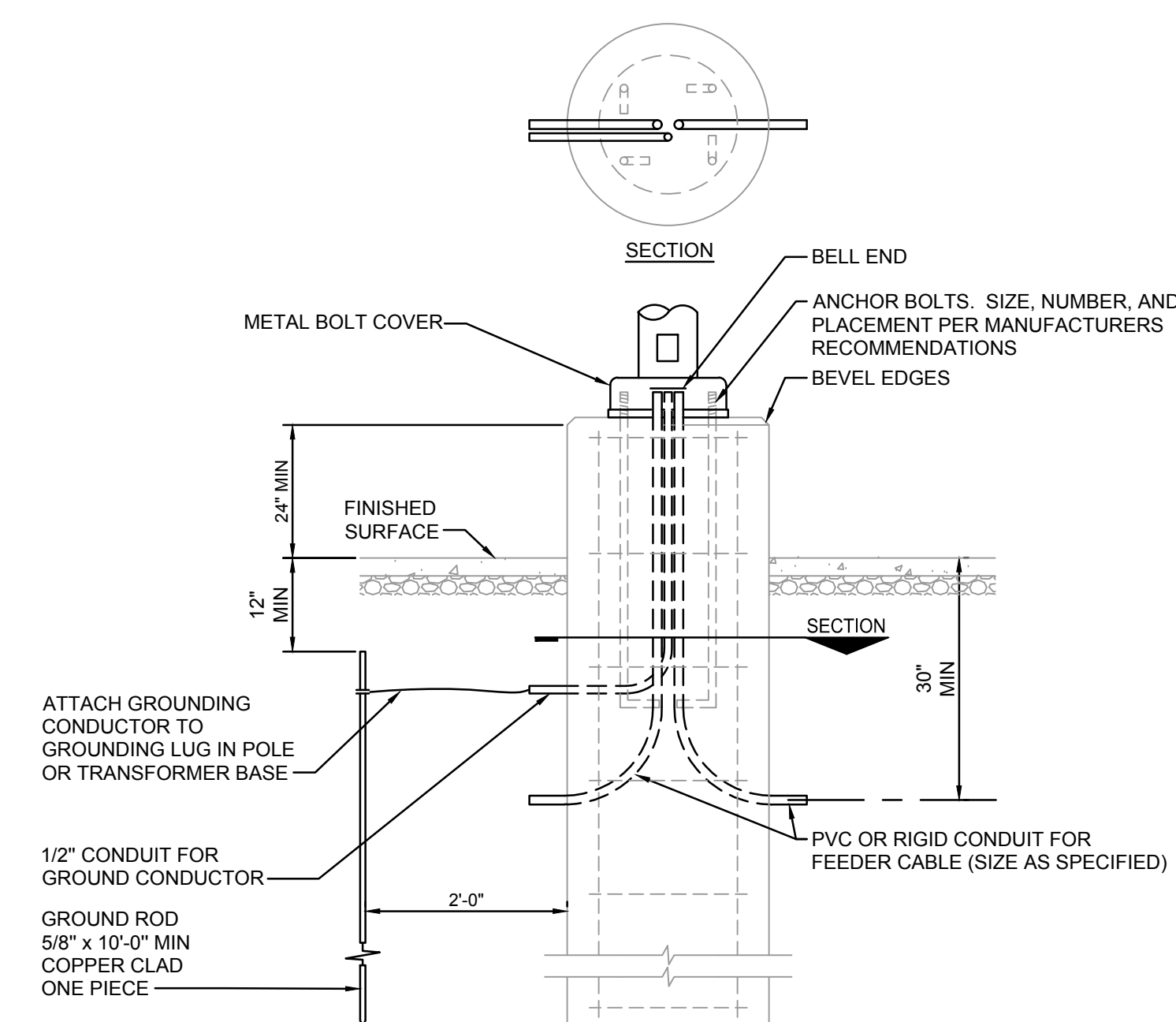
TYPE	DIMENSION (IN.)					
	A	B	C	D	E	F
I-JUNCTION	12 7/8	12 7/8	3/4	12 3/4	9 3/4 - 10 1/2	9 3/4 - 10 1/2
II-JUNCTION	18 - 18 1/2	11 1/4 - 11 1/2	1 3/4 - 2	12	9 1/2 - 10 1/4	18 1/2 - 17 1/4
I-SERVICE	35 5/8	24	3	24	22 1/4	33 7/8
II-SERVICE	47 5/8	30 1/8	3	24	22 1/8	45 5/8

NOTE: THE TYPE II SERVICE BOX SHALL HAVE A TWO-PIECE OVERLAPPING COVER.

- TYPE I JUNCTION BOXES SHALL BE RATED FOR NO LESS THAN 15,000 lbs. VERTICAL TEST LOAD AND NO LESS THAN 8000 lbs. COVER LOAD OVER A 10"x10" AREA.
- TYPE II JUNCTION BOXES SHALL BE RATED FOR NO LESS THAN 22,500 lbs. VERTICAL TEST LOAD AND NO LESS THAN 8000 lbs. COVER LOAD OVER A 10"x10" AREA.
- TYPE I SERVICE BOXES SHALL BE RATED FOR NO LESS THAN 22,500 lbs. VERTICAL TEST LOAD AND NO LESS THAN 8000 lbs. COVER LOAD OVER A 10"x10" AREA.
- MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS. IT SHALL HAVE THE FOLLOWING PROPERTIES:
COMPRESSIVE STRENGTH-11,000 psi ASTM C-109
TENSILE STRENGTH-1,700 psi ASTM C-498
FLEXURAL STRENGTH-7,500 psi ASTM D-790 5.

FIBERGLASS REINFORCED POLYMER CONCRETE JUNCTION BOX DETAILS

SCALE: NOT TO SCALE



- NOTES:**
- DIAMETER AND DEPTH OF CONCRETE BASE TO BE DETERMINED ON A REGIONAL BASIS. STRUCTURAL ENGINEER SHALL SIZE REBAR AND CONCRETE BASE ON REGIONAL WEATHER AND SOILS CONDITIONS.
 - PROVIDE NON-SHRINK GROUT BETWEEN POLE BASE PLATE AND CONCRETE FOUNDATION AS REQUIRED AND SPECIFIED BY POLE MANUFACTURER.

POLE BASE FOUNDATION DETAIL

SCALE: NOT TO SCALE

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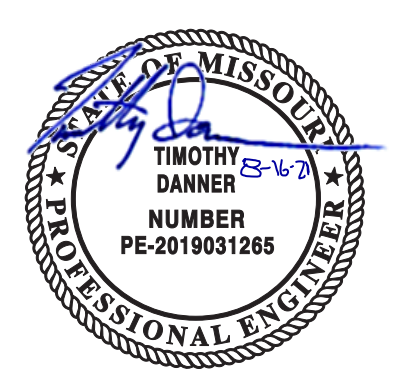
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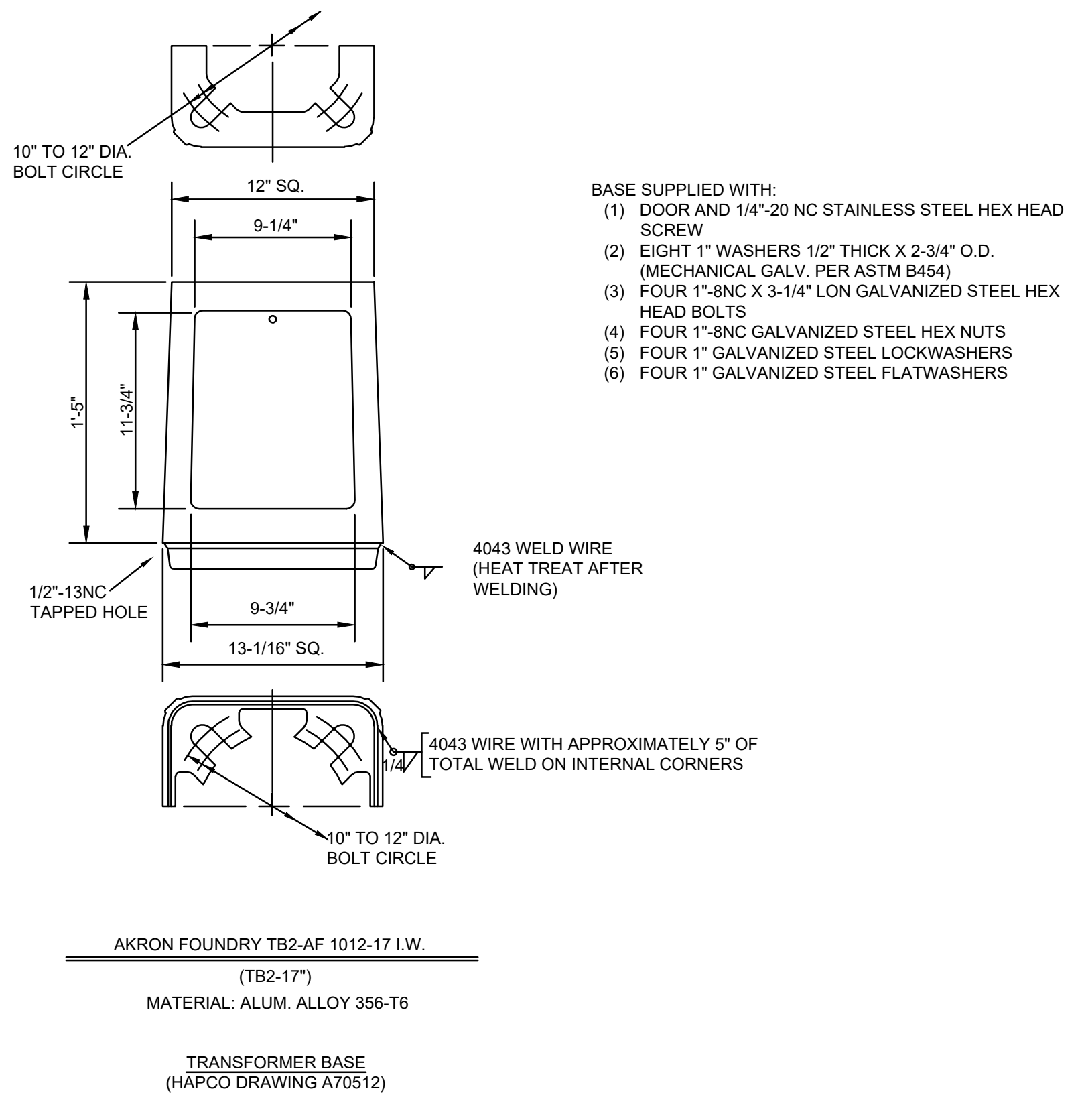
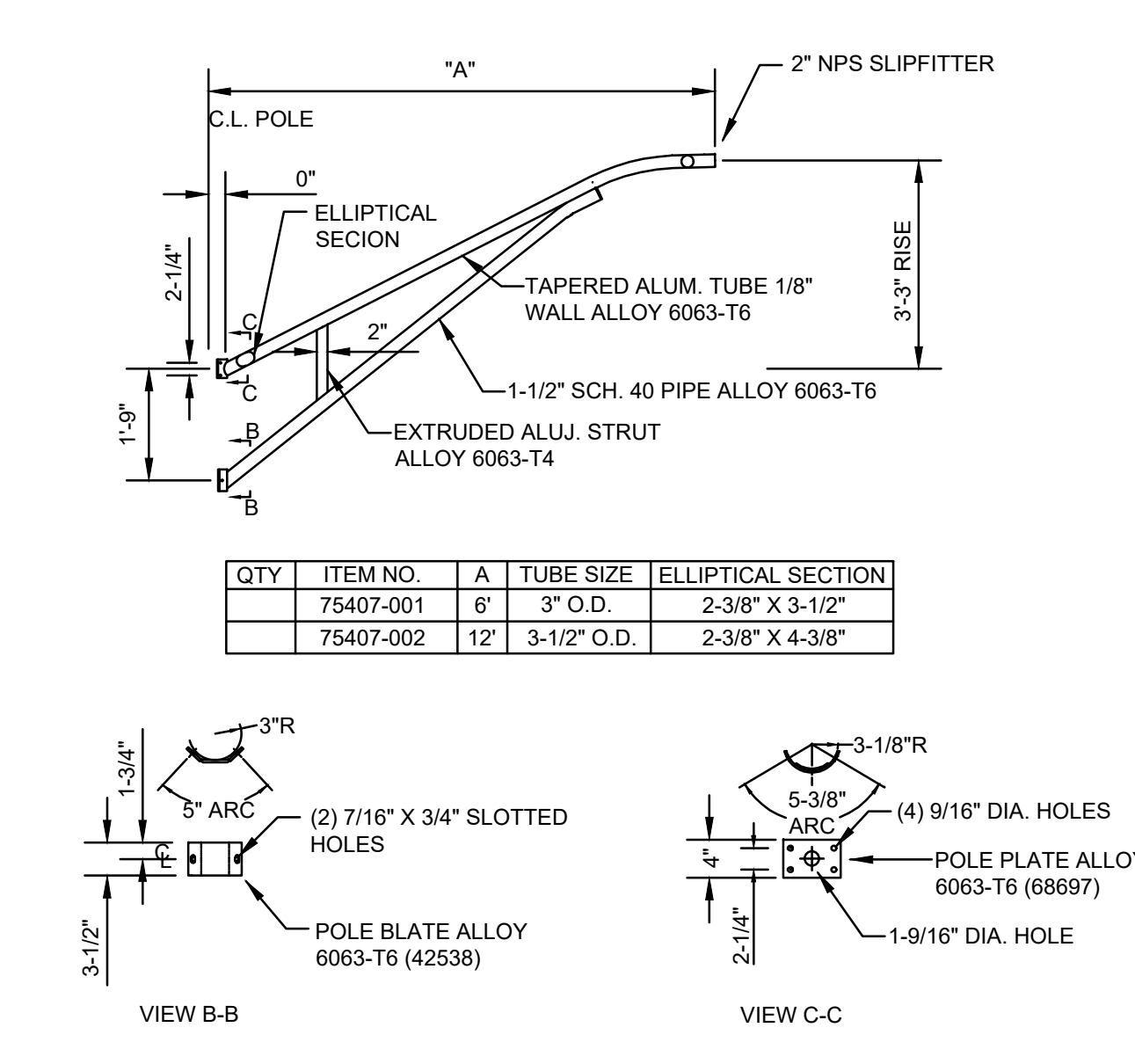
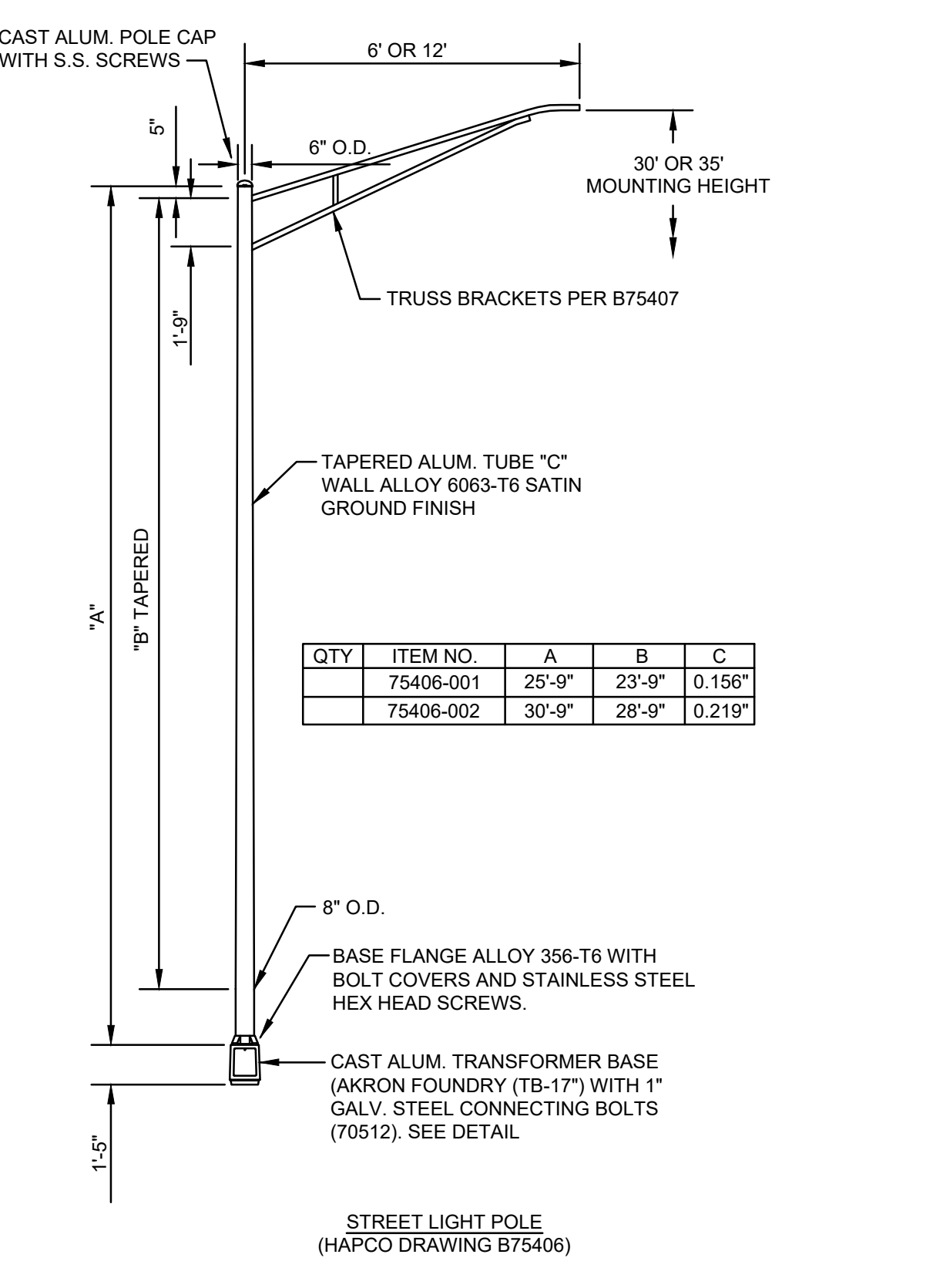
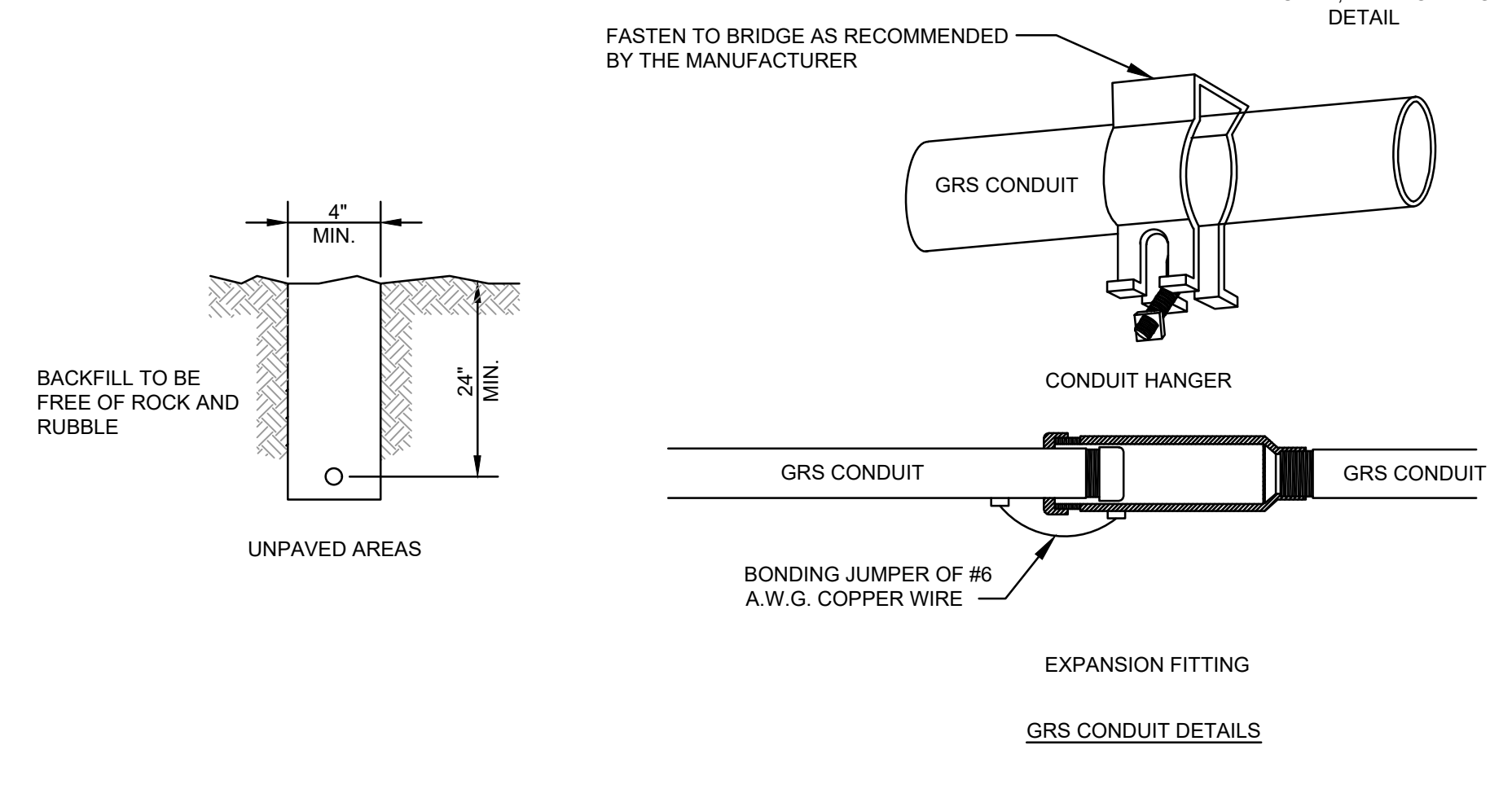
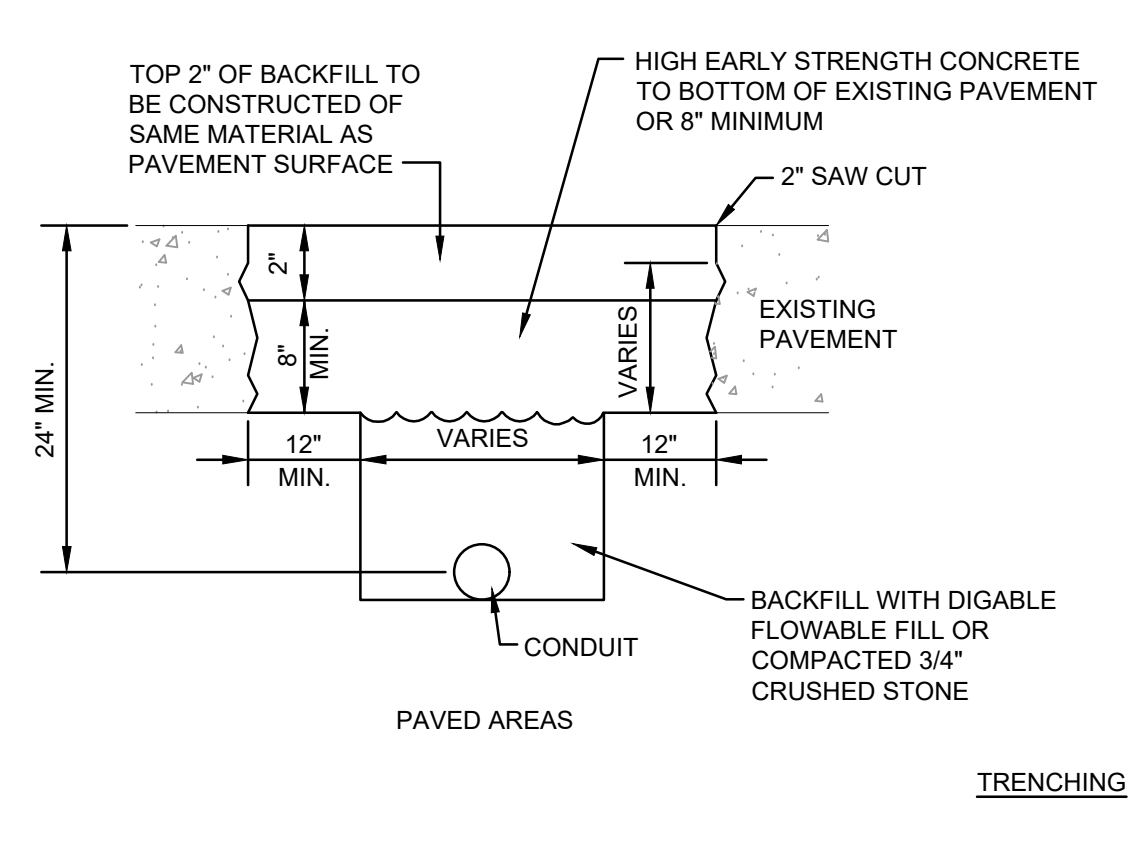
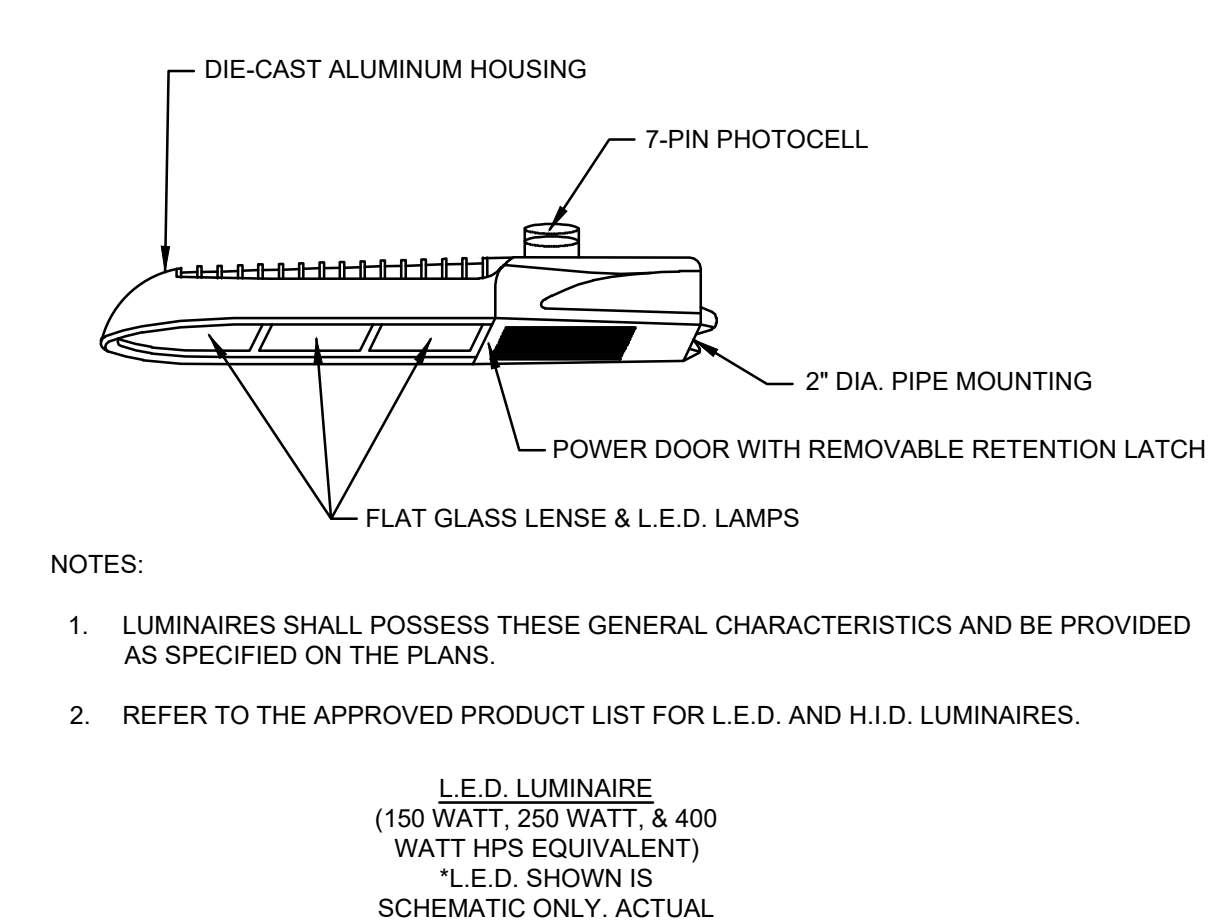
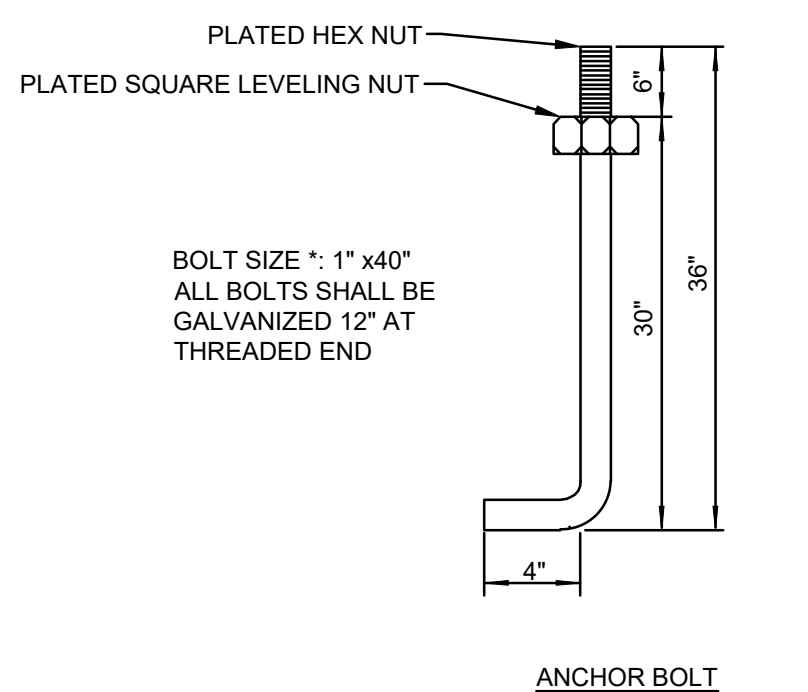
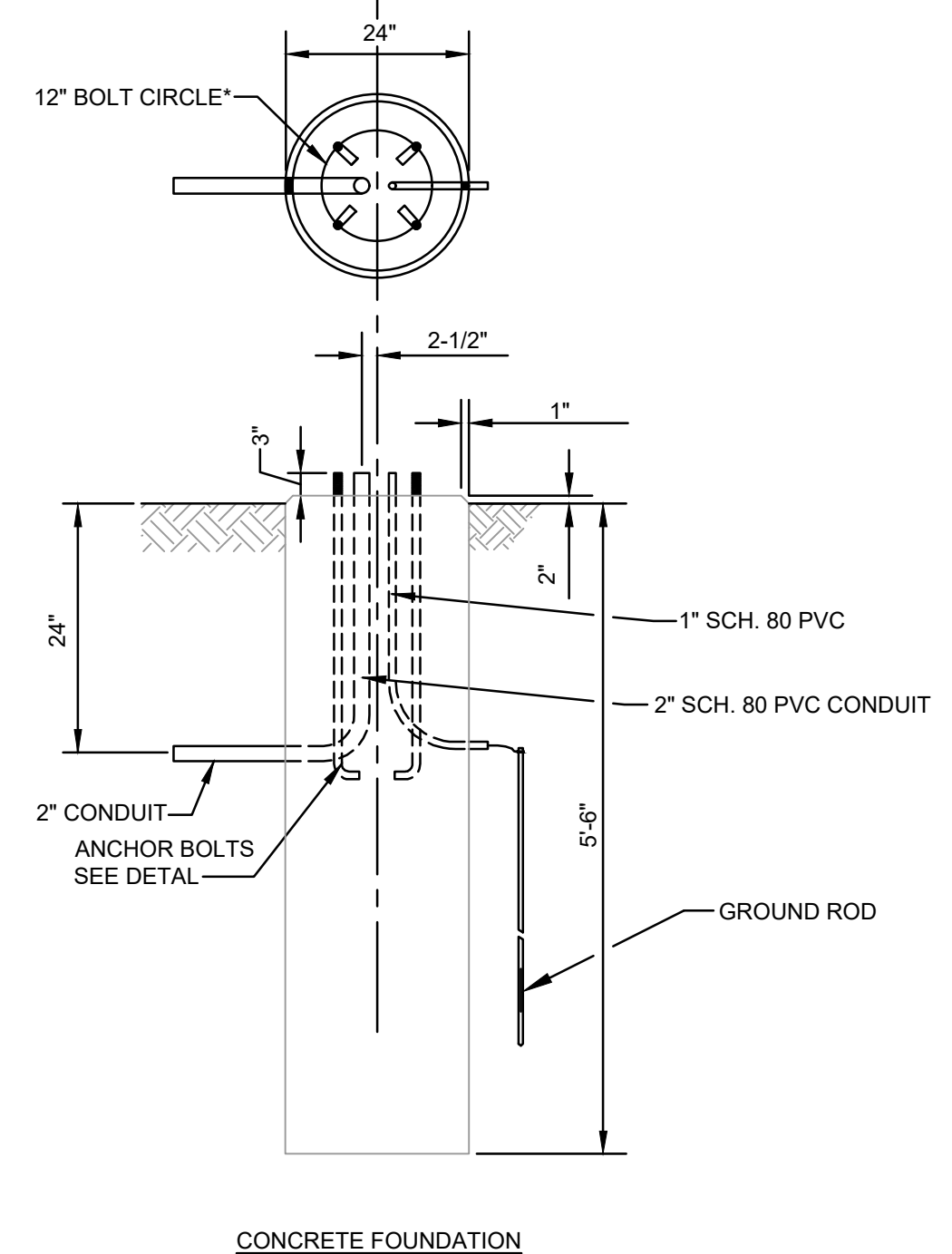
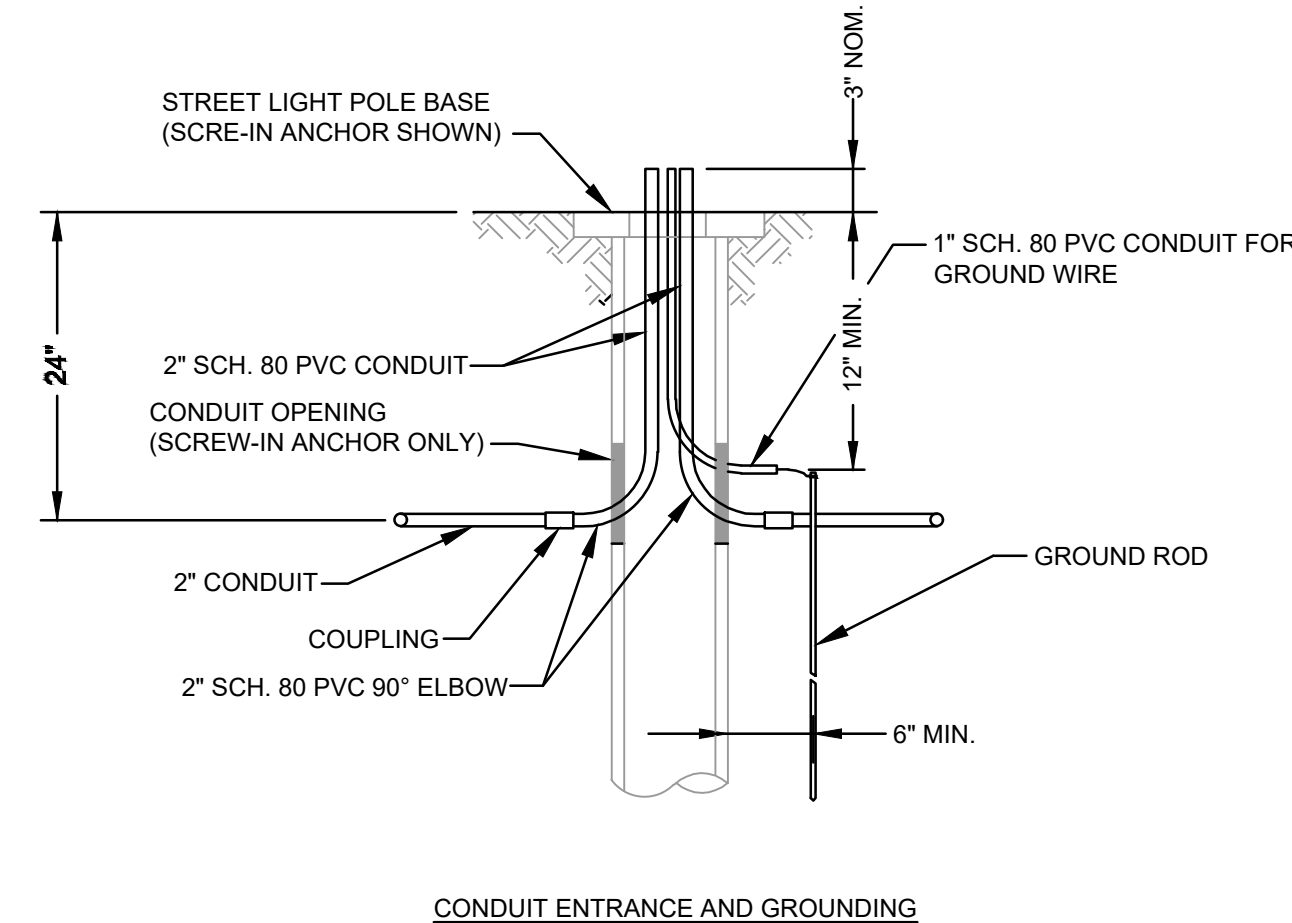
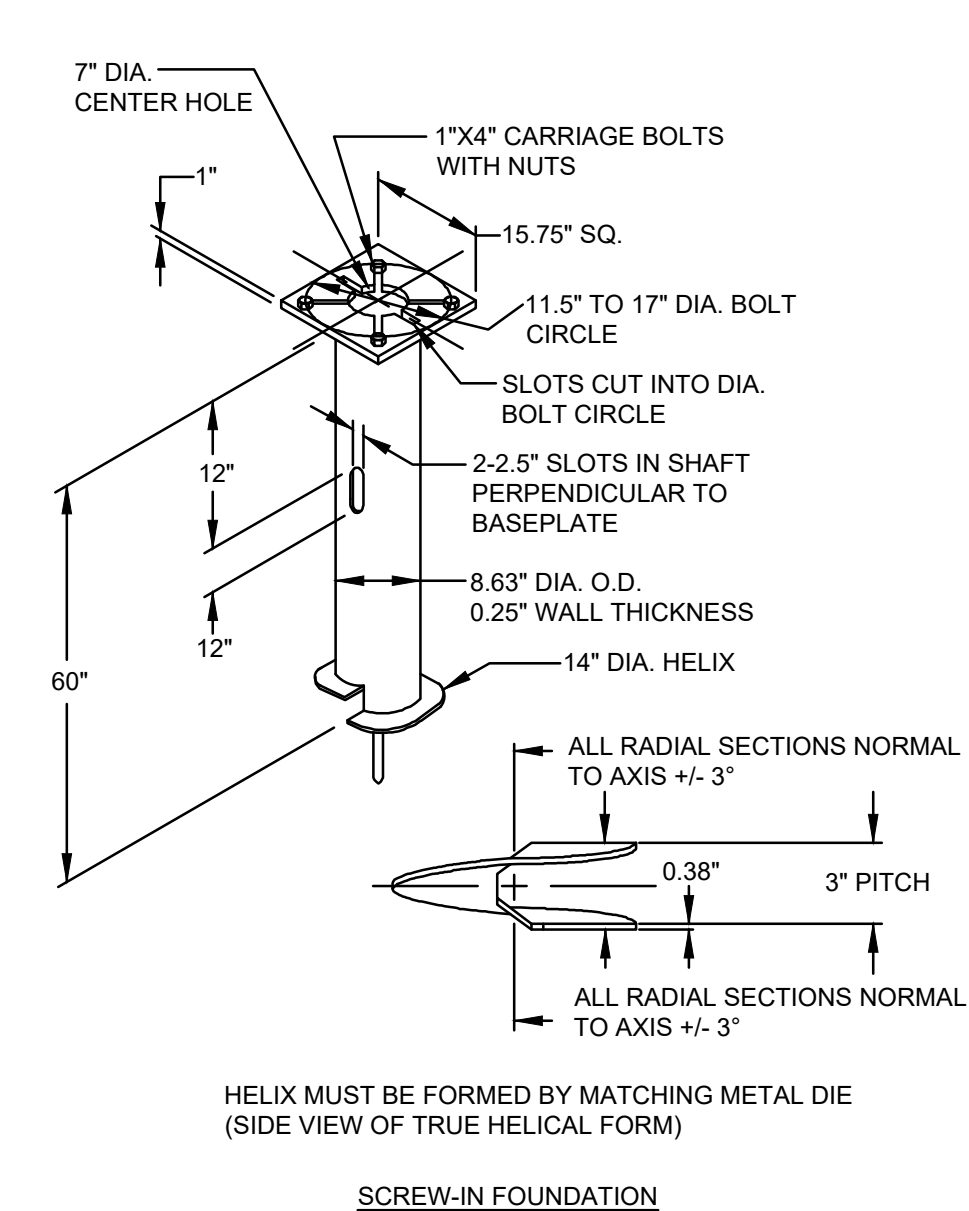


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1 STREET LIGHTING DETAILS
SCALE: NOT TO SCALE

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Platte County School District
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SITE DEVELOPMENT

REVISIONS:

#	Description	Date

PROFESSIONAL ENGINEER
TIMOTHY C. DANNER
NUMBER
PE-2019031265

1 SITE LIGHTING DETAILS

1 SITE LIGHTING DETAILS

SECTION 26000 ELECTRICAL

1. GENERAL CONDITIONS:

- A. THIS CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO BE PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.
- B. THIS CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMANENT AND TEMPORARY PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION OTHER THAN THOSE DEPOSITS OR FEES WHICH ARE FULLY REFUNDABLE TO THE OWNER.
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. WHERE LOCAL CONDITIONS NECESSITATE A REARRANGEMENT, THE CONTRACTOR SHALL PREPARE, AND SUBMIT FOR APPROVAL, DRAWINGS OF THE PROPOSED REARRANGEMENT. THIS CONTRACTOR SHALL CAREFULLY INVESTIGATE THE STRUCTURAL AND FINISH CONDITIONS AFFECTING ALL OF HIS WORK AND SHALL ARRANGE SUCH WORK ACCORDINGLY, FURNISHING SUCH FITTINGS AND ACCESSORIES AS MAY BE REQUIRED TO MEET SUCH CONDITIONS AT NO ADDITIONAL COST TO THE OWNER.
- D. THIS CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.
- E. SPECIFICATIONS AND DRAWINGS ARE COMPLEMENTARY AND WHAT IS CALLED FOR IN ONE SHALL BE AS BINDING AS IF CALLED FOR BY BOTH.
- F. FURNISH LABOR, MATERIALS, EQUIPMENT AND SERVICES REQUIRED AS SHOWN ON THE DRAWINGS AND SPECIFIED IN DIVISION 15.
- G. ALL WORK SHALL BE COMPLETE AND SHALL BE LEFT IN OPERATING CONDITION.
- H. INCLUDE ALL PARTS AND LABOR WHICH ARE INCIDENTAL AND NECESSARY FOR A COMPLETE AND OPERABLE INSTALLATION EVEN THOUGH NOT SPECIFICALLY MENTIONED IN THE CONTRACT DOCUMENTS.
- I. REQUEST INSPECTIONS AS REQUIRED BY REGULATING AGENCIES AND/OR REGULATIONS. PAY ALL CHARGES FOR INSPECTIONS BY REGULATING AGENCIES OF INSTALLATIONS OF PLANS SPECIFICATIONS.
- J. PROVIDE THE OWNER WITH A CERTIFICATE OF FINAL INSPECTION AND APPROVAL BY ENFORCEMENT AUTHORITIES.
- K. FURNISH: TO OBTAIN, COORDINATE, SUBMIT THE NECESSARY DRAWINGS, DELIVER TO THE JOB SITE IN NEW CONDITION READY FOR INSTALLATION, UNLOAD AND UNPACK, AND GUARANTEE.
- L. INSTALL: TO RECEIVE AT THE JOB SITE, STORE, ASSEMBLE, ERECT, SET IN PLACE, ANCHOR, APPLY FINISH, PROTECT, CLEAN, TEST, START-UP, AND MAKE READY FOR OWNER'S USE.
- M. PROVIDE: TO FURNISH AND INSTALL.
- N. PROVIDE NEW MATERIAL AND EQUIPMENT, UNLESS NOTED OTHERWISE. PROTECT EQUIPMENT AND MATERIAL FROM DAMAGE, DIRT AND THE WEATHER.
- O. THE ENGINEER RESERVES THE RIGHT TO REJECT MATERIAL OR WORKMANSHIP NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, BEFORE OR AFTER INSTALLATION, AT NO ADDITIONAL COST TO THE OWNER.
- P. REFINISH ALL ELECTRICAL EQUIPMENT DAMAGED DURING SHIPPING, INSTALLATION AND/OR PRIOR TO FINAL ACCEPTANCE TO ITS ORIGINAL CONDITION. REMOVE ALL RUST, PRIME, AND PAINT PER MANUFACTURER'S RECOMMENDATIONS FOR FINISH EQUAL TO ORIGINAL.
- Q. PROTECT OPENINGS AND EQUIPMENT FROM OBSTRUCTION, BREAKAGE, MISUSE, DAMAGE OR BLEMISHES. PROTECT MATERIALS AND EQUIPMENT IMMEDIATELY UPON RECEIPT AT THE JOB SITE OR IMMEDIATELY AFTER THEY HAVE BEEN REMOVED FROM THEIR SHIPPING CONTAINERS. UNLESS NOTED OTHERWISE, KEEP THEM CLEAN AND UNDAMAGED UNTIL FINAL ACCEPTANCE OF THE ENTIRE PROJECT BY THE OWNER. WHEN A PORTION OF THE BUILDING IS OCCUPIED BY THE OWNER BEFORE SUBSTANTIAL COMPLETION OF THE ENTIRE PROJECT, MAKE ARRANGEMENTS TO TRANSFER RESPONSIBILITY FOR PROTECTION AND HOUSEKEEPING FOR THE OCCUPIED PORTION.
- R. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO ELECTRICAL EQUIPMENT, MATERIALS OR WORK UNTIL FINAL ACCEPTANCE OF THE ENTIRE PROJECT BY THE OWNER.
- S. KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH, CAUSED BY HIS EMPLOYEES OR WORK, AT ALL TIMES. REMOVE RUBBISH, TOOLS, SCAFFOLDING, AND SURPLUS MATERIALS FROM AND ABOUT THE BUILDING, AND LEAVE WORK AREAS "BROOM CLEAN" OR ITS EQUIVALENT DAILY, CLEAN ELECTRICAL EQUIPMENT AND REMOVE TEMPORARY IDENTIFICATION.
- T. OPERATE EQUIPMENT AND SYSTEMS IN ALL THEIR OPERATING MODES, TO VERIFY PROPER OPERATION, PRIOR TO FINAL FIELD OBSERVATION AND OWNER INSTRUCTIONS. PREPARE A PRE-INSPECTION REPORT AND SUBMIT TO THE ENGINEER AND OWNER FOR REVIEW.
- U. TEST ALL INSTALLED ELECTRICAL EQUIPMENT AND CABLES REQUIRED BY CONSTRUCTION DOCUMENTS ACCORDING TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE INTERNATIONAL ELECTRICAL TESTING ASSOCIATION, INC. (NETA). IF ACCEPTABLE PERFORMANCE OF ANY TEST IS NOT ACHIEVED, MAKE THE NECESSARY CORRECTIONS AND THE TEST SHALL BE REPEATED UNTIL ACCEPTABLE PERFORMANCE IS ACHIEVED. PROVIDE WRITTEN REPORTS OF ALL TESTS, WITH FAILURES IDENTIFIED, TO ENGINEER.
- V. FULLY INSTRUCT THE OWNER'S DESIGNATED PERSONNEL IN THE OPERATION OF EACH ELECTRICAL SYSTEM AT THE TIME IT IS PUT INTO SERVICE. PROVIDE INSTRUCTION USING COMPETENT INSTRUCTORS AND FACTORY TRAINED PERSONNEL.
- W. CONTRACTOR SHALL INSTALL ALL MATERIALS AND EQUIPMENT AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND/OR RECOMMENDATIONS.
- X. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR ALL EQUIPMENT INDICATED AND/OR REQUIRED FOR A COMPLETE AND OPERATIONAL SYSTEM. A FORM INDICATING ALL SHOP DRAWINGS TO BE PROVIDED AS PART OF THE PROJECT SHALL BE SUBMITTED FOR REVIEW BY THE ENGINEER PRIOR TO ANY SHOP DRAWING SUBMITTAL REVIEW.
- Y. THIS SPECIFICATION SHALL INCORPORATE ALL PROJECT REQUIREMENTS AND RESPONSIBILITIES INDICATED WITHIN THE FRONT-END OF THE PROJECT MANUAL.

2. LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES:

- A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, THE NATIONAL FIRE PROTECTION ASSOCIATION CODES, THE NATIONAL ELECTRICAL SAFETY CODE, LOCAL BUILDING CODE, AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES. SHOULD ANY WORK SHOWN ON THE DRAWINGS OR SPECIFIED HEREIN BE OF LOWER STANDARD, THE CONTRACTOR SHALL REFER THE POINTS IN QUESTION TO THE ENGINEER FOR APPROVAL.

3. SCOPE OF WORK:

- A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL AND ASSOCIATED SERVICES REQUIRED TO COMPLETELY CONSTRUCT AND LEAVE ALL SYSTEMS OPERATIONAL AS SHOWN ON THE

DRAWINGS AND HEREIN DESCRIBED.

- B. ALL WORK PERFORMED UNDER THIS SECTION SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.

4. MATERIALS AND EQUIPMENT REVIEW:

- A. AS SOON AS POSSIBLE AFTER THE AWARD OF THE CONTRACT, THIS CONTRACTOR SHALL SUBMIT FOR REVIEW SHOP DRAWINGS FOR ALL EQUIPMENT TO BE FURNISHED FOR THIS PROJECT. SUBMITTALS SHALL HIGHLIGHT THE MANUFACTURER'S NAME, MODEL NUMBER, DESCRIPTIVE ENGINEERING DATA AND ALL NECESSARY INFORMATION AS TO FINISH, MATERIAL GAUGES AND ACCESSORIES.
- B. ALL PORTIONS OF THE SHOP DRAWINGS THAT ARE INTENDED TO BE REVIEWED SHALL BE HIGHLIGHTED. ANY PORTION NOT CALLED OUT SHALL BE ASSUMED TO BE EXCLUDED FROM THE JOB.

5. GUARANTEE:

- A. THIS CONTRACTOR SHALL GUARANTEE COMPLETE SYSTEM OPERATION AND THAT THE APPARATUS FURNISHED AND INSTALLED WILL BE FREE FROM DEFECTS IN WORKMANSHIP AND MATERIALS AND WILL GIVE SATISFACTORY SERVICE. THE CONTRACTOR AGREES TO REPLACE, WITHOUT EXPENSE TO THE OWNER, ANY PART OF THE INSTALLATION WHICH PROVES OR BECOMES DEFECTIVE WITHIN ONE YEAR AFTER THE SYSTEM IS ACCEPTED.

6. COORDINATION:

- A. THIS CONTRACTOR SHALL EXAMINE ALL ARCHITECTURAL, MECHANICAL, STRUCTURAL AND OTHER DRAWINGS RELATED TO THIS PROJECT, AND IT SHALL BE HIS RESPONSIBILITY TO COORDINATE THE ELECTRICAL WORK WITH OTHER TRADES.

7. AS-BUILT DRAWINGS:

- A. THIS CONTRACTOR SHALL PREPARE COMPLETE AS-BUILT DRAWINGS OF ALL ELECTRICAL SYSTEMS AND TURN OVER TO THE ENGINEER REVISED ELECTRONIC CAD FILES.
- B. THIS CONTRACTOR SHALL PREPARE AND SUBMIT TO THE OWNER'S REPRESENTATIVE FIVE BOUND SETS OF MANUFACTURER'S LITERATURE FOR ALL EQUIPMENT TO BE INSTALLED ON THIS PROJECT SHOWING ALL DETAILS OF EQUIPMENT, REPLACEMENT PART DATA AND MAINTENANCE INSTRUCTIONS.

8. EXCAVATION:

- A. ALL EXCAVATION AND BACKFILL REQUIRED FOR THE INSTALLATION OF ELECTRICAL WORK SHALL BE THE COMPLETE RESPONSIBILITY OF THE CONTRACTOR.
- B. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER LAYOUT AND THE ESTABLISHMENT OF ALL LINES AND LEVELS REQUIRED FOR THE EXECUTION OF THE WORK.
- C. WHEN SERVICES ARE TO BE RUN SIDE-BY-SIDE, A COMMON TRENCH MAY BE USED PROVIDING THE REQUIRED VERTICAL AND HORIZONTAL SEPARATION BETWEEN THE VARIOUS SERVICES ARE MAINTAINED AND PROVIDING THE METHODS OF BEDDING AND BACKFILL MEET THE APPROVAL OF THE ENGINEER. CONTRACTORS INVOLVED SHALL MAKE THEIR OWN AGREEMENT AS TO THE SHARING OF THE COST OF THE COMMON TRENCHING AND BACKFILL WORK.
- D. LOCATE EXISTING UNDERGROUND UTILITIES IN AREAS OF EXCAVATION WORK. SHOULD UNCHARTED, OR INCORRECTLY CHARTED, PIPING OR OTHER UTILITIES BE ENCOUNTERED DURING EXCAVATION, CONSULT UTILITY ENGINEER IMMEDIATELY FOR DIRECTIONS. COOPERATE WITH OWNER AND UTILITY COMPANIES IN KEEPING RESPECTIVE SERVICES AND FACILITIES IN OPERATION. REPAIR DAMAGED UTILITIES TO SATISFACTION OF UTILITY OWNER.

9. EXTERIOR AND FOUNDATION WALLS:

- A. ALL PIPING THROUGH EXTERIOR OR FOUNDATION WALLS SHALL PASS THROUGH SCHEDULE 40 GALVANIZED STEEL SLEEVES WHICH SHALL BE LARGE ENOUGH TO ALLOW DRY OR CALKING MATERIAL. NO SLEEVES ARE PERMITTED THROUGH CONCRETE STRUCTURAL MEMBERS. ALL SLEEVES SHALL BE COORDINATED AND APPROVED BY THE STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

10. FLOORS:

- A. ALL PIPING THROUGH FLOORS SHALL BE PROVIDED WITH SCHEDULE 40 GALVANIZED STEEL PIPE SLEEVES, EXTENDING 2 INCHES ABOVE FLOOR.

11. CUTTING:

- A. ALL CUTTING OF EXISTING CONCRETE FLOORS/SLABS ON GRADE IN THE INTERIOR OF THE BUILDING SHALL BE PERFORMED BY "SAW CUTTING".

12. PATCHING:

- A. ON CONCRETE, PATCH THE OPENING WITH CONCRETE, FINISHED SMOOTH WITH ADJACENT SURFACES.

13. IDENTIFICATION OF SWITCHES AND APPARATUS:

- A. ALL CABINETS, SAFETY SWITCHES, AND OTHER APPARATUS USED FOR OPERATION AND CONTROL OF CIRCUITS, APPLIANCES, AND EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY IDENTIFIED BY MEANS OF ENGRAVED PLASTIC PLATES BLACK WITH WHITE LETTERS.

14. GROUNDING:

- A. ALL FEEDERS AND BRANCH CIRCUITS SHALL CONTAIN GROUND WIRES.
- B. ALL CONDUCTORS, MOTOR FRAMES, RACEWAYS, CABINETS, ETC., THAT REQUIRE GROUNDING SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, THOSE OF THE SERVING UTILITY AND LOCAL AUTHORITIES HAVING JURISDICTION.

15. CONDUIT:

- A. ALL ELECTRICAL POWER WIRING, INCLUDING LOW VOLTAGE WIRING, SHALL BE INSTALLED IN CONDUIT AS HEREIN SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4 INCH NOMINAL SIZE SHALL BE USED.
- B. UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 AS MANUFACTURED BY CARLON OR APPROVED EQUAL. ALL CONDUITS SHALL BE INSTALLED WITH MINIMUM 36" INCH COVER.
- C. CONDUIT INSTALLED ABOVE GROUND EXTERIOR SHALL BE GALVANIZED RIGID STEEL AS MANUFACTURED BY THE ALLIED TUBE AND CONDUIT CORPORATION OR APPROVED EQUAL. CONDUIT SHALL BE SHERARDIZED OR HOT-DIP GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING.
- D. WHEN PVC CONDUITS PENETRATE CONCRETE FLOOR CONSTRUCTION, CONTRACTOR SHALL USE RIGID STEEL ELBOWS AND EXTENSION. PVC CONDUIT/FITTINGS SHALL NOT BE PERMITTED TO BE EXPOSED ABOVE THE FLOOR.
- E. THIN WALL TUBING SHALL BE REPUBLIC "ELECTRUNITE E.M.T." OR APPROVED EQUAL. SHALL BE INSTALLED INDOORS.

- F. ALL FITTINGS SHALL BE OF THE COMPRESSION TYPE AND SHALL BE WATERTIGHT.
- G. CONDUIT FOR INTERIOR WIRING, IN GENERAL, SHALL BE THINWALL TUBING UNLESS OTHERWISE NOTED.

- H. RACEWAYS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET AND FITTING TO FITTING. A RUN OF CONDUIT BETWEEN OUTLETS OR FITTINGS SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER-BENDS INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE OUTLET OR FITTING. THE RADIUS OF BENDS SHALL NEVER BE SHORTER THAN THAT OF THE CORRESPONDING TRADE ELBOW. THE SYSTEM SHALL BE COMPLETE WITH OUTLETS, DISTRIBUTION BOXES, ETC., SMOOTH INSIDE AND MECHANICALLY SECURE IN PLACE. APPROVED STRAPS, HANGERS, OR SUPPORTS SHALL BE USED TO SECURE CONDUITS IN PLACE. CONDUITS SHALL, IN GENERAL, BE SUPPORTED AT INTERVALS NOT EXCEEDING 10'-0" AND WITHIN 3'-0" OF EACH OUTLET BOX, JUNCTION BOX, CABINET OR FITTING.

- I. CONDUITS SHALL BE PROTECTED DURING CONSTRUCTION; PLUG AND KEEP CLEAN AND DRY. CONDUIT ENDS SHALL BE BUTTED IN CENTERS OF COUPLINGS. NO CRACKS OR FLATTENED SECTIONS WILL BE PERMITTED AT BENDS OR ELSEWHERE. ALL ENDS OF CONDUIT SHALL BE REAMED TO REMOVE ROUGH EDGES. RUNNING THREADS WILL NOT BE PERMITTED.

- J. CONDUITS SHALL BE CONCEALED WITHIN THE WALLS, CEILINGS, AND FLOORS WHERE POSSIBLE AND UNLESS OTHERWISE NOTED. EXPOSED CONDUIT SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES WITH THE BUILDING LINES.

18. WIRE AND CABLE:

- A. WIRE AND CABLE SHALL BE AMERICAN INSULATED WIRE CORP., GENERAL CABLE CORP., SENATOR WIRE AND CABLE CORP. SOUTHWIRE OR APPROVED EQUAL, OF SIZES AS SHOWN ON THE DRAWINGS OR HEREIN SPECIFIED.
- B. ALL CONDUCTORS SHALL BE COPPER.
- C. NO. 10 AWG AND SMALLER CONDUCTORS SHALL BE SOLID WITH INSULATION AND NO. 8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED WITH TYPE THHN/TW INSULATION EXCEPT THAT CONDUCTORS WITHIN 3 INCHES OF LIGHT FIXTURE BALLASTS SHALL HAVE RHH, THHN, OR EQUAL INSULATION RATED FOR 90 DEGREES C. APPLICATION.

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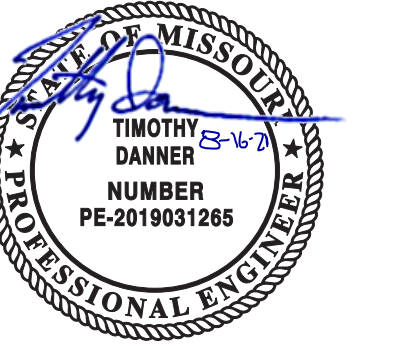
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Platte County New Middle School
Platte County School District
N Platte Purchase Drive & NW 95th,
Kansas City, MO 64154

REVISIONS:

#	Description	Date



The Professional Architect and Affiliates for the above plans are to the extent and form shown on this sheet. All drawings, specifications and other documents not printed on this sheet shall be considered approved by the architect and the architect's responsibility shall extend to all drawings, specifications and other documents not printed on this sheet.

JOB NO: 20021
DRAWN BY: SH
CHECKED BY: TD
DATE: 08.16.2021

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ES401

SHEET INDEX:

Sheet #	Sheet Description	50% DD SET 06/23/2021	100% DD SET 07/16/2021	30% CD SET 08/09/2021	PERMIT SET 08/16/2021
PLATTE COUNTY MIDDLE SCHOOL					
L000	PROJECT SHEET	X	X	X	X
L100	OVERALL LANDSCAPE PLAN	X	X	X	X
L101	HARDSCAPE PLAN	X	X	X	X
L102	HARDSCAPE PLAN	X	X	X	X
L103	HARDSCAPE PLAN	X	X	X	X
L104	HARDSCAPE PLAN	X	X	X	X
L105	HARDSCAPE PLAN	X	X	X	X
L190	HARDSCAPE DETAILS - PAVING	X	X	X	X
L200	OVERALL LANDSCAPE PLAN	X	X	X	X
L201	LANDSCAPE OVERSTORY PLAN	X	X	X	X
L210	LANDSCAPE UNDERSTORY PLAN	X	X	X	X
L211	LANDSCAPE UNDERSTORY PLAN	X	X	X	X
L212	LANDSCAPE UNDERSTORY PLAN	X	X	X	X
L213	LANDSCAPE UNDERSTORY PLAN	X	X	X	X
L214	LANDSCAPE UNDERSTORY PLAN	X	X	X	X
L215	LANDSCAPE UNDERSTORY PLAN	X	X	X	X
L216	LANDSCAPE UNDERSTORY PLAN	X	X	X	X
L217	LANDSCAPE UNDERSTORY PLAN	X	X	X	X
L290	LANDSCAPE DETAILS	X	X	X	X
L300	OVERALL IRRIGATION PLAN	X	X	X	X
L301	IRRIGATION MAINLINE & CONTROL WIRE PLAN	X	X	X	X
L302	IRRIGATION PLAN	X	X	X	X
L303	IRRIGATION PLAN	X	X	X	X
L304	IRRIGATION PLAN	X	X	X	X
L305	IRRIGATION PLAN	X	X	X	X
L306	IRRIGATION PLAN	X	X	X	X
L307	IRRIGATION PLAN	X	X	X	X
L308	IRRIGATION PLAN	X	X	X	X
L390	IRRIGATION DETAILS	X	X	X	X
L391	IRRIGATION DETAILS & SCHEDULE	X	X	X	X
PF100	OVERALL TRACK & PLAYING FIELD PLAN	X	X	X	X
PF101	PLAYING FIELD LAYOUT PLAN	X	X	X	X
PF102	PLAYING FIELD GRADING PLAN	X	X	X	X
PF103	PLAYING FIELD SUB-DRAINAGE PLAN	X	X	X	X
PF104	PLAYING FIELD UTILITY PLAN	X	X	X	X
PF105	THROWING & JUMPING LAYOUT PLAN	X	X	X	X
PF200	PLAYING FIELD DETAILS	X	X	X	X
PF201	PLAYING FIELD DETAILS				X

SPECIFICATION INDEX:

Spec #	Spec Description	50% DD SET 06/23/2021	100% DD SET 07/16/2021	30% CD SET 08/09/2021	PERMIT SET 08/16/2021
PLATTE COUNTY MIDDLE SCHOOL					
.000107.03	OLSSON LANDSCAPE ARCHITECT CERTIFICATION PAGE				
017120	TRACK AND FIELD SURVEY CERTIFICATION				
116843	TRACK AND FIELD JUMP PIT MATERIALS				
116844	TRACK AND FIELD SPORTS EQUIPMENT				
116850	OUTDOOR SPORTS EQUIPMENT				
321216	ASPHALT PAVING SPORTS				
321313	CONCRETE PAVING				
321373	CONCRETE PAVEMENT JOINT SEALANTS				
321813	SYNTHETIC TURF SYSTEM SURFACE				
321823	SYNTHETIC TURF SUBSURFACE AND DRAINAGE SYSTEM				
321839	TRACK AND FIELD SYNTHETIC SURFACE BLACK MAT SPRAY				
321840	TRACK AND FIELD LINE MARKINGS				
323113	CHAIN LINK FENCE AND GATES				
323119	ORNAMENTAL FENCE				
323500	SITE FURNISHINGS				
325250	CAST IN PLACE CONCRETE CURBING				
328400	PLANTING IRRIGATION				
329200	TURF AND GRASSES				
329500	PLANTS				
329510	NATIVE GRASSES				

MATERIAL SCHEDULE:

KEY	MATERIAL NAME	MANUFACTURER/SUPPLIER	COLLECTION	COMMENTS	CONTACT
PAVING					
CAST IN PLACE					
P-300.1	GRAY CONCRETE			GRAY CONCRETE, STRAIGHT BROOM FINISH	
P-300.2	INTEGRAL COLOR CONCRETE #1			STRAIGHT BROOM FINISH	
P-300.3	INTEGRAL COLOR CONCRETE #2			STRAIGHT BROOM FINISH	
EDGING					
E-500.1	RAW STEEL EDGING	BORCON	N/A	1/8" THICK BY 6" HEIGHT BY 10' LENGTH	
OTHER					
P-600.1	SYNTHETIC TURF				
P-600.2	RIVER ROCK				
WALLS					
VENEER & CAP					
W-200.1	SEATWALL FACE				
W-200.2	SEATWALL CAP				
OTHER					
W-300.1	6" CONCRETE BED EDGE			GRAY CONCRETE, STRAIGHT BROOM FINISH	
W-300.2	CONCRETE BENCH			GRAY CONCRETE, STRAIGHT BROOM FINISH	
W-300.3	LIMESTONE SLAB SEATING	STURGIS	N/A	LIMESTONE SLAB	
OTHER					
W-300.1	RAISED PLANTER SLATS				
SITE AMENITIES					
MANUFACTURED					
SF-200.1	ORNAMENTAL FENCE	AMERISTAR	MONTAGE	6'-0" HT. MAJESTIC	
SF-200.2	BIKE RACK	BELSON	N/A	STEEL 2 CIRCULAR	

GENERAL NOTES:

- THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF KANSAS CITY, MISSOURI IN CURRENT USAGE. ALL STANDARDS NOT COVERED BY THE CITY SHALL BE APWA STANDARDS IN CURRENT USAGE UNLESS OTHERWISE NOTED.
- THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE UTILITY INFORMATION IS NOT MEANT TO BE ALL INCLUSIVE. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION TO PROVIDE NON-INTERUPTION OF SERVICE, TO ENSURE PROPER CLEARANCES, AND TO AVOID DAMAGE THERETO.
- CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO, AND ACCEPT THE SITE CONDITIONS TO BE ENCOUNTERED.
- WHERE THE NEW IMPROVEMENTS ABUT EXISTING IMPROVEMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MATCHING THE ELEVATION OF THE EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL PROVIDE A SECURE SITE TO PROTECT VEHICLES AND PEDESTRIANS FROM ACCIDENTAL FALLS AND HARM FROM THE CONSTRUCTION PROCESS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DE-WATERING CONSTRUCTION AREAS IN ORDER TO PERMIT CONTINUATION OF THE WORK. ANY WATER ACCUMULATION SHALL BE REMOVED BY PUMPING.
- CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES OR MATERIALS AS SHOWN IN THESE PLANS. CONTRACTOR SHALL ACCOMMODATE ALL SLOPE AND GRADE CONDITIONS IN THEIR CALCULATION OF MATERIAL QUANTITIES FOR ALL WORK SHOWN ON THESE PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PEDESTRIAN AND VEHICULAR TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS. OWNER SHALL APPROVE MEASURES USED TO ALLOW TENANTS AND SHOPPERS PROPER ACCESS DURING CONSTRUCTION.

PROJECT DESIGN CRITERIA:

- CODE EDITIONS USED:
- 2018 INTERNATIONAL BUILDING CODE (IBC)
 - 2021 UNIFORM PLUMBING CODE (UPC)
 - 2021 INTERNATIONAL MECHANICAL CODE (IMC)
 - 2010 ACCESSIBILITY STANDARDS
 - 2020 NATIONAL ELECTRIC CODE (NEC)
 - 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
 - 2017 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
 - 2018 INTERNATIONAL FIRE CODE (IFC)

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Platte County New Middle School
Platte County School District
N Platte Purchase Drive & NW 95th,
Kansas City, MO 64154

REVISIONS:

#	Description	Date



The Professional architect seal placed in this sheet applies only to the material and terms shown on this sheet. All drawings, specifications or other documents not printed on this sheet and not included in the project files and not otherwise approved by the architect are not part of the contract documents and shall not be relied upon for construction.

JOB NO: 20021
DRAWN BY: EW/TG/TS
CHECKED BY: BM/DV
DATE: August 16, 2021

ochsner hare + hare
the **olsson studio**

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L000



HARDSCAPE GENERAL NOTES:

1. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF KANSAS CITY, MISSOURI IN CURRENT USAGE. ALL STANDARDS NOT COVERED BY THE CITY SHALL BE APWA STANDARDS IN CURRENT USAGE UNLESS OTHERWISE NOTED.
2. THE UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE UTILITY INFORMATION IS NOT MEANT TO BE ALL INCLUSIVE. THE CONTRACTOR SHALL NOTIFY MISSOURI ONE CALL (811) BEFORE THE START OF ANY EXCAVATION WORK. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION TO PROVIDE NON-INTERRUPTION OF SERVICE, TO ENSURE PROPER CLEARANCES, AND TO AVOID DAMAGE THERETO.
3. ALL DIMENSIONS ARE TO BACK OF CURB UNLESS OTHERWISE NOTED.
4. CONTRACTOR SHALL, BY HIS OWN INVESTIGATION, AND PRIOR TO COMMENCING WORK, SATISFY HIMSELF AS TO, AND ACCEPT THE SITE CONDITIONS TO BE ENCOUNTERED.
5. WHERE THE NEW IMPROVEMENTS ABUT EXISTING IMPROVEMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR MATCHING THE ELEVATION OF THE EXISTING IMPROVEMENTS UNLESS OTHERWISE NOTED.
6. THE CONTRACTOR SHALL PROVIDE A SECURE SITE TO PROTECT VEHICLES AND PEDESTRIANS FROM ACCIDENTAL FALLS AND HARM FROM THE CONSTRUCTION PROCESS.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR DE-WATERING CONSTRUCTION AREAS IN ORDER TO PERMIT CONTINUATION OF THE WORK. ANY WATER ACCUMULATION SHALL BE REMOVED BY PUMPING.
8. CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITIES OR MATERIALS AS SHOWN IN THESE PLANS. CONTRACTOR SHALL ACCOMMODATE ALL SLOPE AND GRADE CONDITIONS IN THEIR CALCULATION OF MATERIAL QUANTITIES FOR ALL WORK SHOWN ON THESE PLANS.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR PEDESTRIAN AND VEHICULAR TRAFFIC CONTROL DURING CONSTRUCTION OPERATIONS. OWNER SHALL APPROVE MEASURES USED TO ALLOW TENANTS AND SHOPPERS PROPER ACCESS DURING CONSTRUCTION.
10. CONTRACTOR SHALL TAKE CARE TO CREATE SMOOTH UNIFORM FINISH GRADES IN ALL AREAS.
11. SLOPES SHALL BE MADE WITH A 4 TO 1 MAXIMUM GRADE FOR MAINTENANCE PURPOSES, UNLESS OTHERWISE NOTED.
12. CONTRACTOR SHALL MATCH GRADES AT EXISTING IMPROVEMENTS.
13. ALL SPOT ELEVATIONS SHOWN ARE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
14. CONTRACTOR SHALL ADJUST ALL VALVE BOXES, MANHOLE RING COVERS, AND OTHER UTILITY APPURTENANCES TO MATCH FINISH GRADE ELEVATIONS.
15. TURF & SHRUB BED AREAS SHALL BE GRADED AS NECESSARY TO ALLOW A 2% SLOPE TO INLET LOCATIONS AND SWALES.
16. ALL WORK CONSTRUCTED UNDER THESE PLANS SHALL MEET SLOPE REQUIREMENTS PER THE 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN, THE 2012 TAS STANDARDS FOR ACCESSIBLE DESIGN, AND INTERNATIONAL BUILDING CODE IN CURRENT USAGE. MAXIMUM 5% RUNNING SLOPE AND MAXIMUM 2% CROSS SLOPE FOR SIDEWALKS.
17. ALL WORK CONSTRUCTED UNDER THESE PLANS SHALL HAVE A MINIMUM OF A 1% SLOPE. LANDSCAPE BEDS AND TURF AREAS SHALL HAVE A MINIMUM OF A 2% SLOPE.
18. CHANGES IN LEVEL SHALL NOT BE GREATER THAN 1/4" AND A MAXIMUM OF 1/2" ARE ALLOWED WITH A BEVELED SLOPE NOT STEEPER THAN 1:2.

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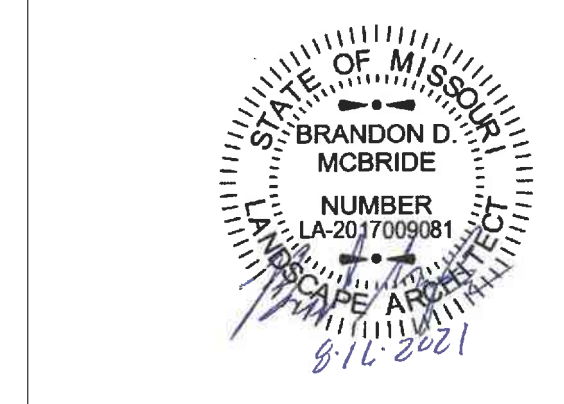
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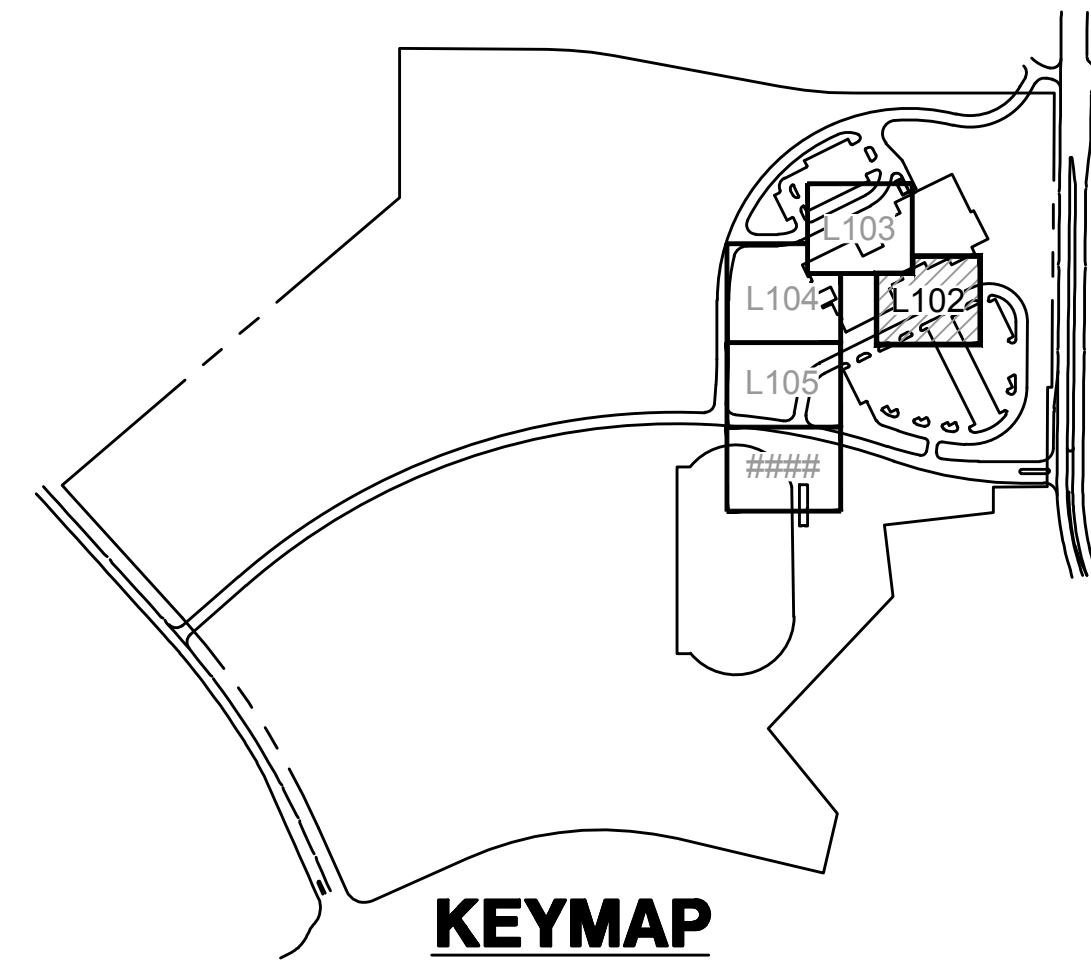
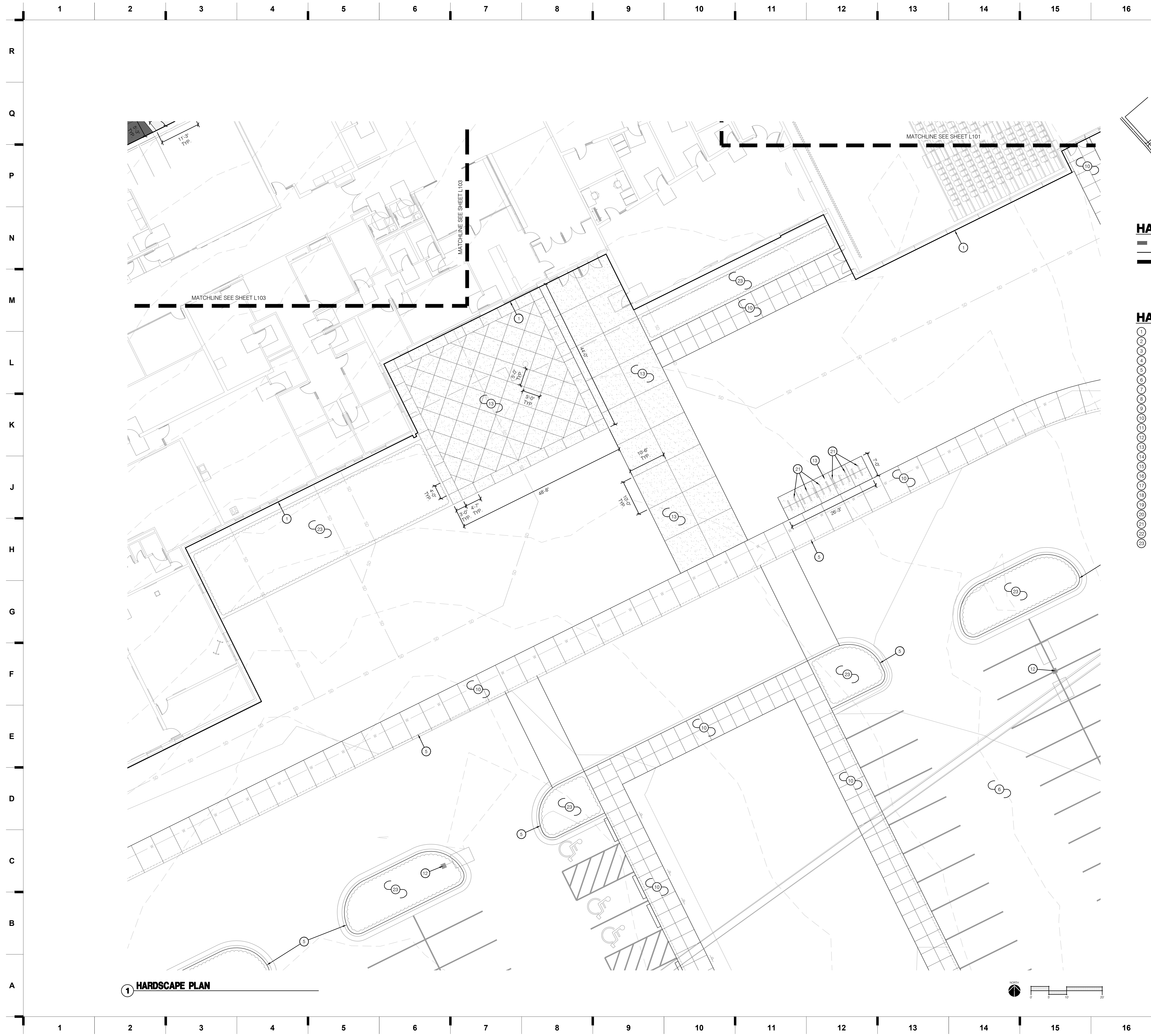


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JOB NO: 20021
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 CHECKED BY: BM/DV
 DATE: August 16, 2021

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L100



- HARDSCAPE LEGEND:**
- LIMITS OF CONSTRUCTION
 - - - RIGHT OF WAY / PROPERTY LINE
 - - - SHEET MATCHLINE
 - [Pattern] GRAY CONCRETE
 - [Pattern] INTEGRAL COLOR CONCRETE #1
 - [Pattern] INTEGRAL COLOR CONCRETE #2
 - [Pattern] SYNTHETIC TURF

- HARDSCAPE PLAN NOTES:**
- 1 BUILDING FACADE; REF: ARCHITECTURAL PLANS
 - 2 TRASH ENCLOSURE; REF: ARCHITECTURAL PLANS
 - 3 COLUMN; REF: ARCHITECTURAL PLANS
 - 4 SIGNAGE; REF: ARCHITECTURAL PLANS
 - 5 BACK OF CURB; REF: CIVIL PLANS
 - 6 PARKING LOT; REF: CIVIL PLANS
 - 7 PRIVATE DRIVE; REF: CIVIL PLANS
 - 8 ALTERNATE PRIVATE DRIVE; REF: CIVIL PLANS
 - 9 CURB RAMP; REF: CIVIL PLANS
 - 10 CONCRETE SIDEWALK; REF: CIVIL PLANS
 - 11 INSTALL BOLLARD; REF: CIVIL PLANS
 - 12 POLE LIGHT; REF: ELECTRICAL PLANS
 - 13 CONSTRUCT GRAY CONCRETE (P-300.1); REF: 1/L190
 - 14 CONSTRUCT INTEGRAL COLOR CONCRETE #1 (P-300.2); REF: 2/L190
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 - 21 INSTALL BIKE RACK (SF-200.2); REF: 6/L190
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 Platte County School District
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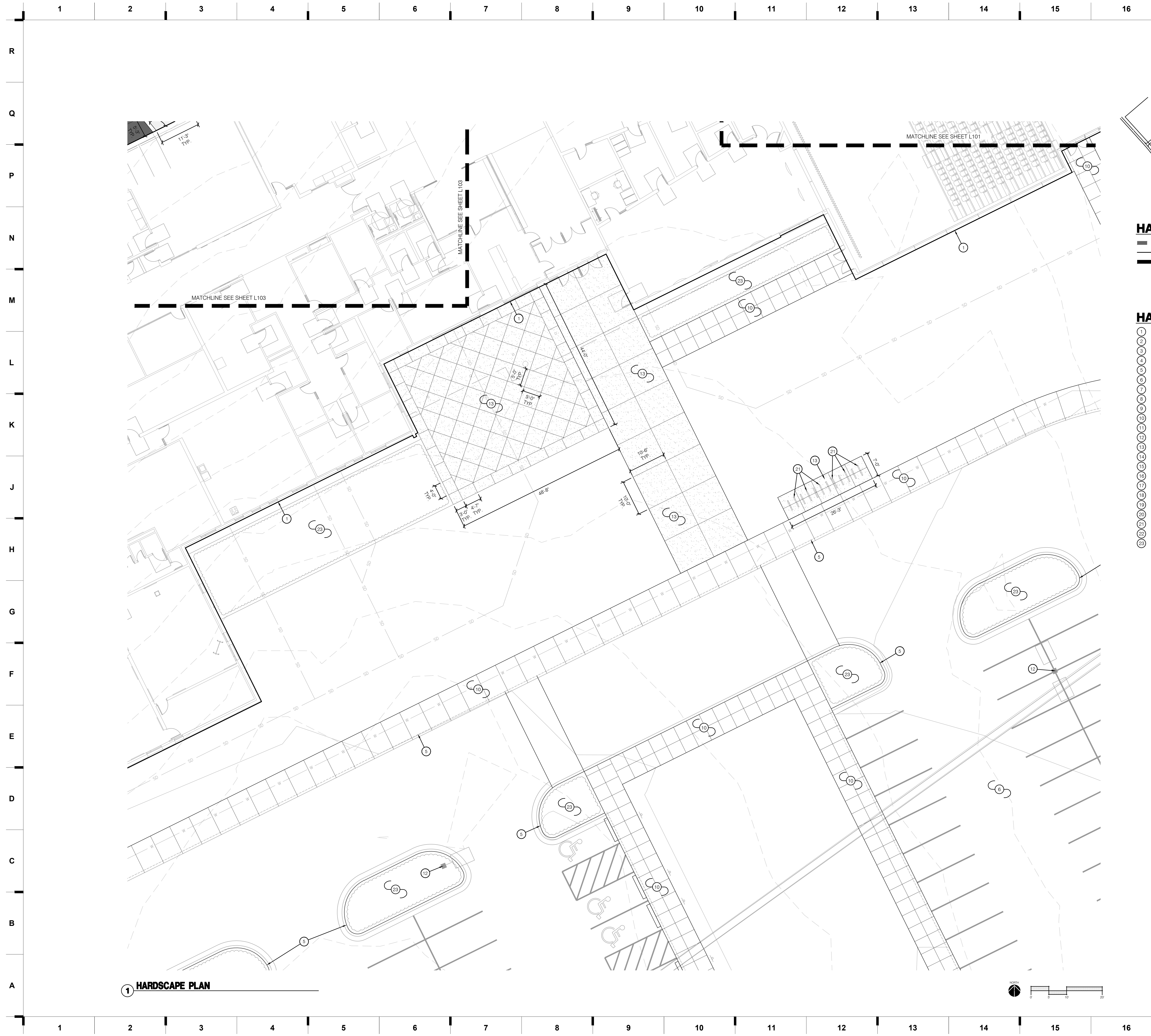
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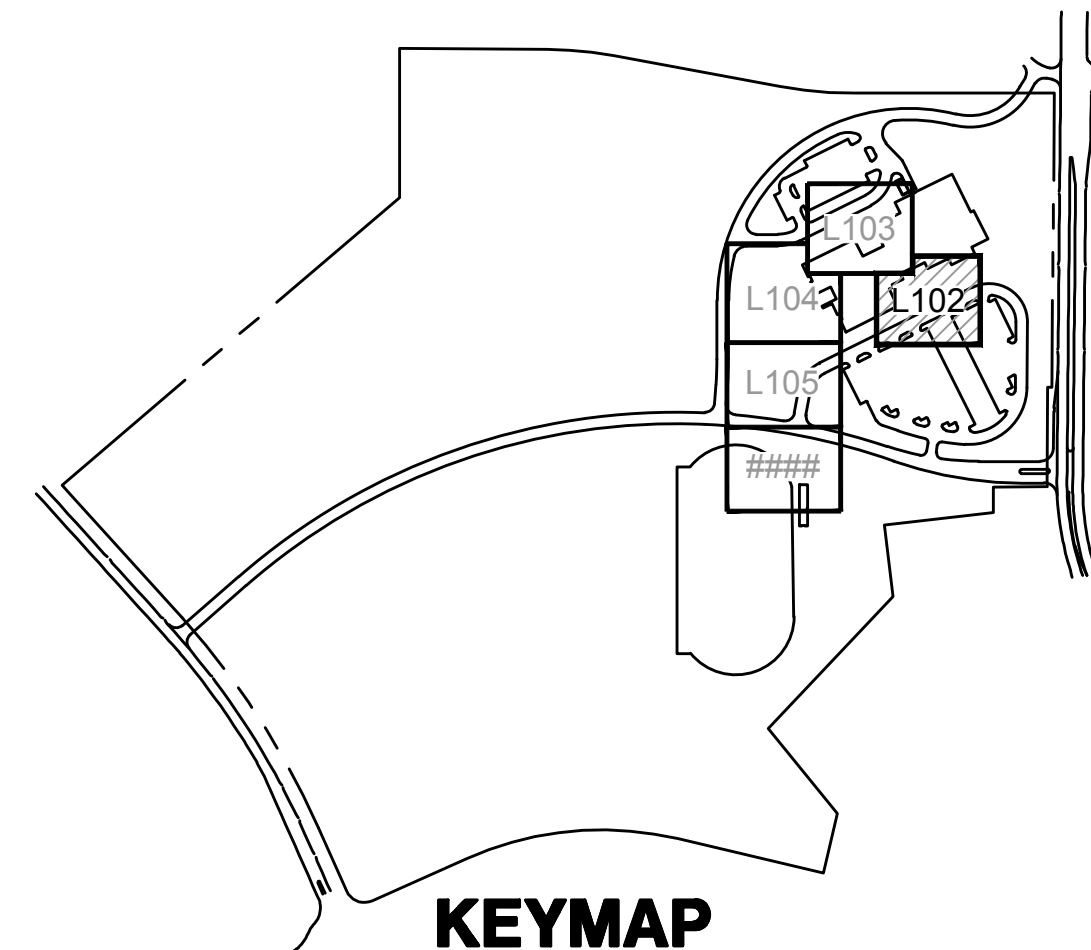
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L101



1 HARDSCAPE PLAN



HARDSCAPE LEGEND:

- LIMITS OF CONSTRUCTION
- - - RIGHT OF WAY / PROPERTY LINE
- - - SHEET MATCHLINE
- [Pattern] GRAY CONCRETE
- [Pattern] INTEGRAL COLOR CONCRETE #1
- [Pattern] INTEGRAL COLOR CONCRETE #2
- [Pattern] SYNTHETIC TURF

HARDSCAPE PLAN NOTES:

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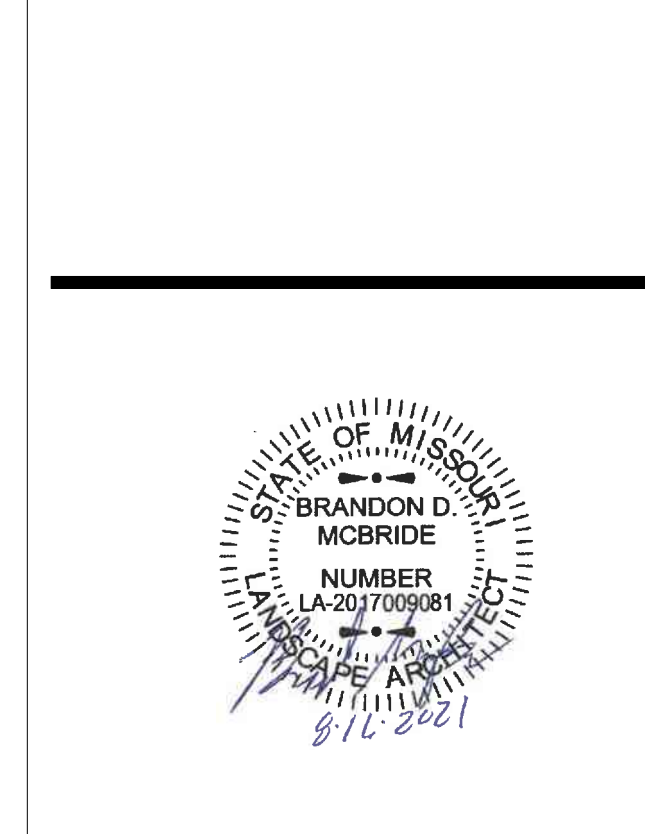
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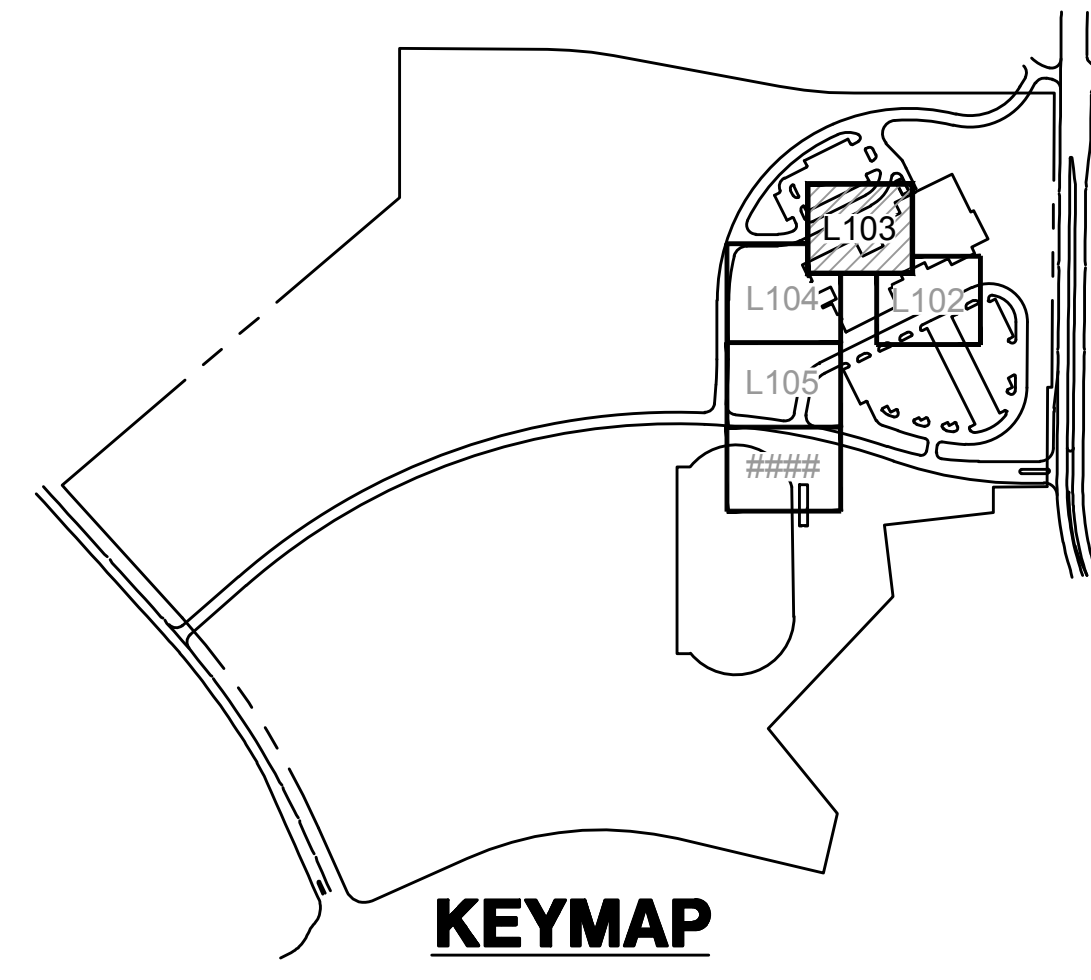
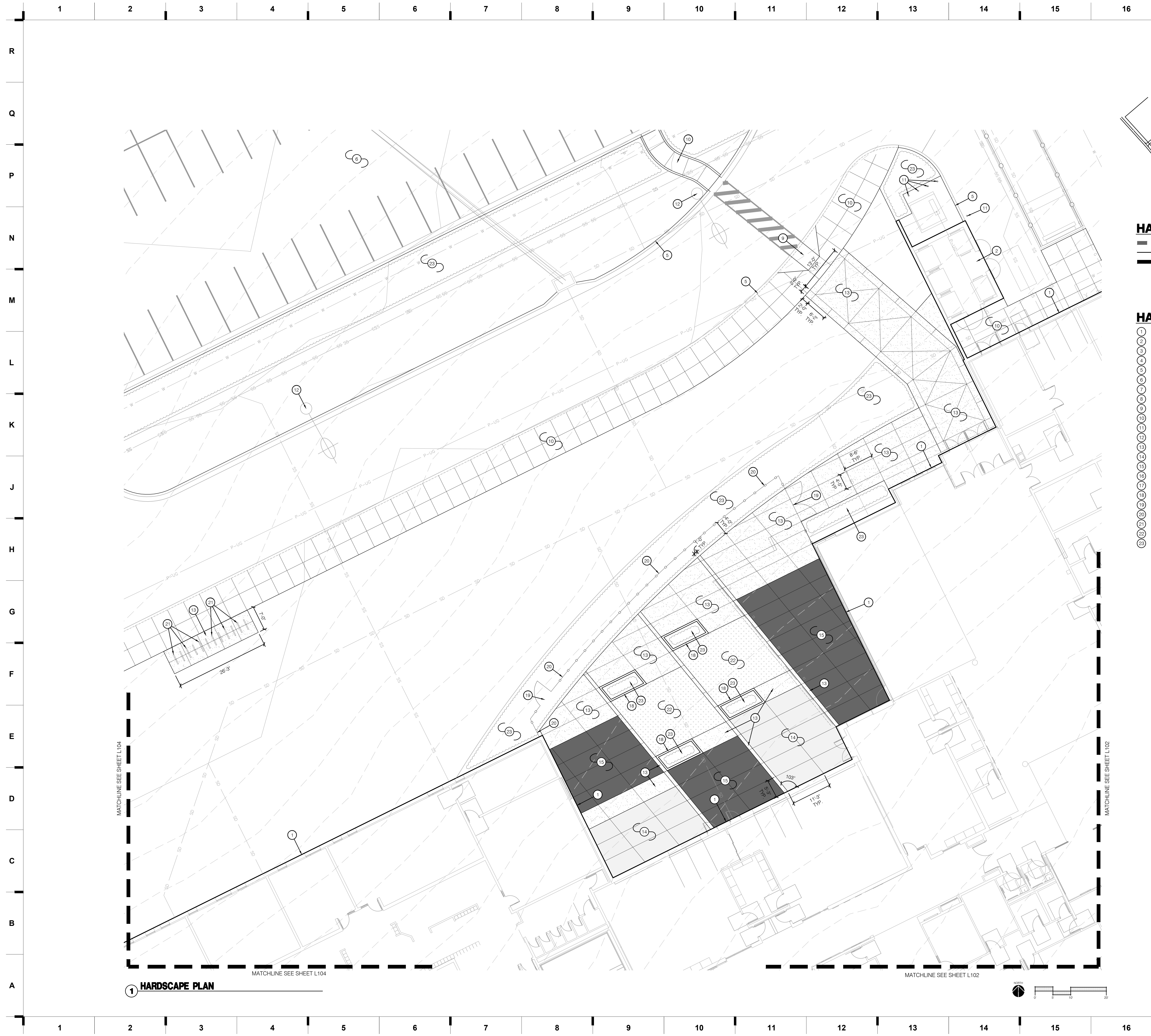
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JOB NO: 20021
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L101



- HARDSCAPE LEGEND:**
- LIMITS OF CONSTRUCTION
 - - - RIGHT OF WAY / PROPERTY LINE
 - - - SHEET MATCHLINE
 - GRAY CONCRETE
 - INTEGRAL COLOR CONCRETE #1
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 - SYNTHETIC TURF

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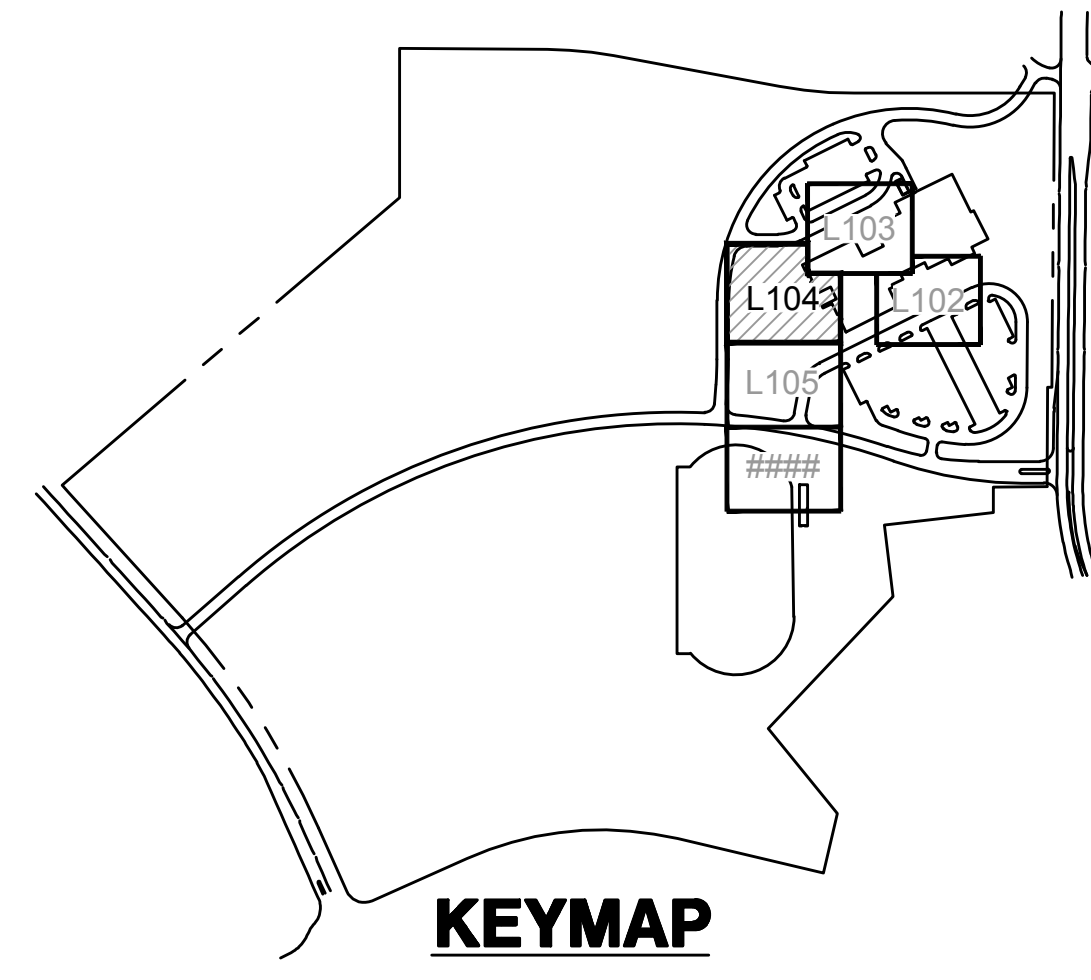
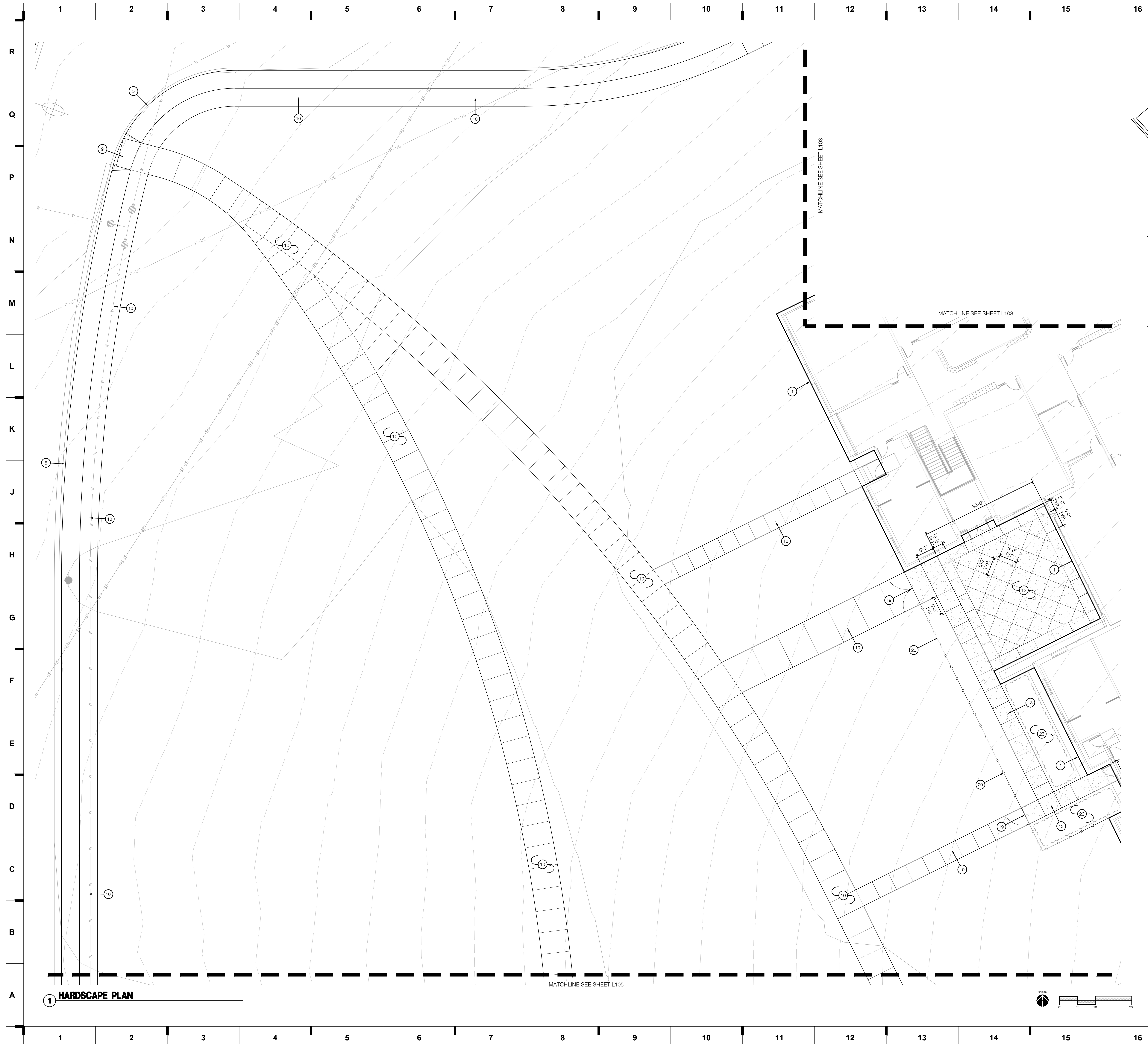
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L102

HARDSCAPE PLAN



HARDSCAPE LEGEND:

- LIMITS OF CONSTRUCTION
- - - RIGHT OF WAY / PROPERTY LINE
- - - SHEET MATCHLINE
- GRAY CONCRETE
- INTEGRAL COLOR CONCRETE #1
- INTEGRAL COLOR CONCRETE #2
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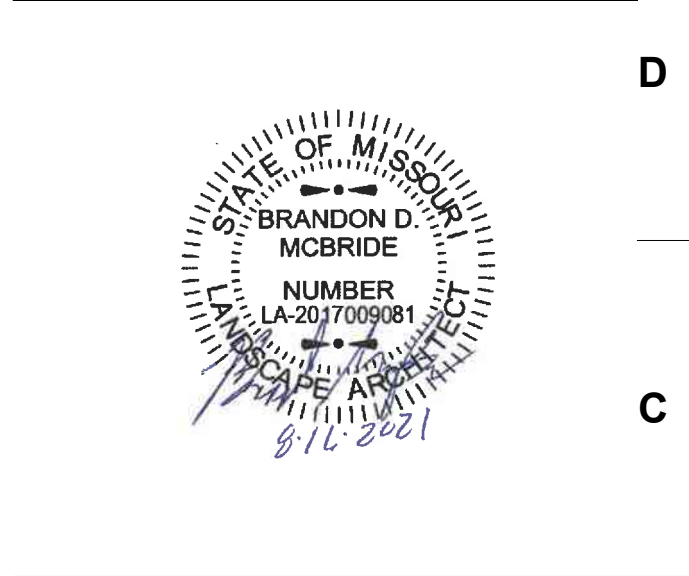
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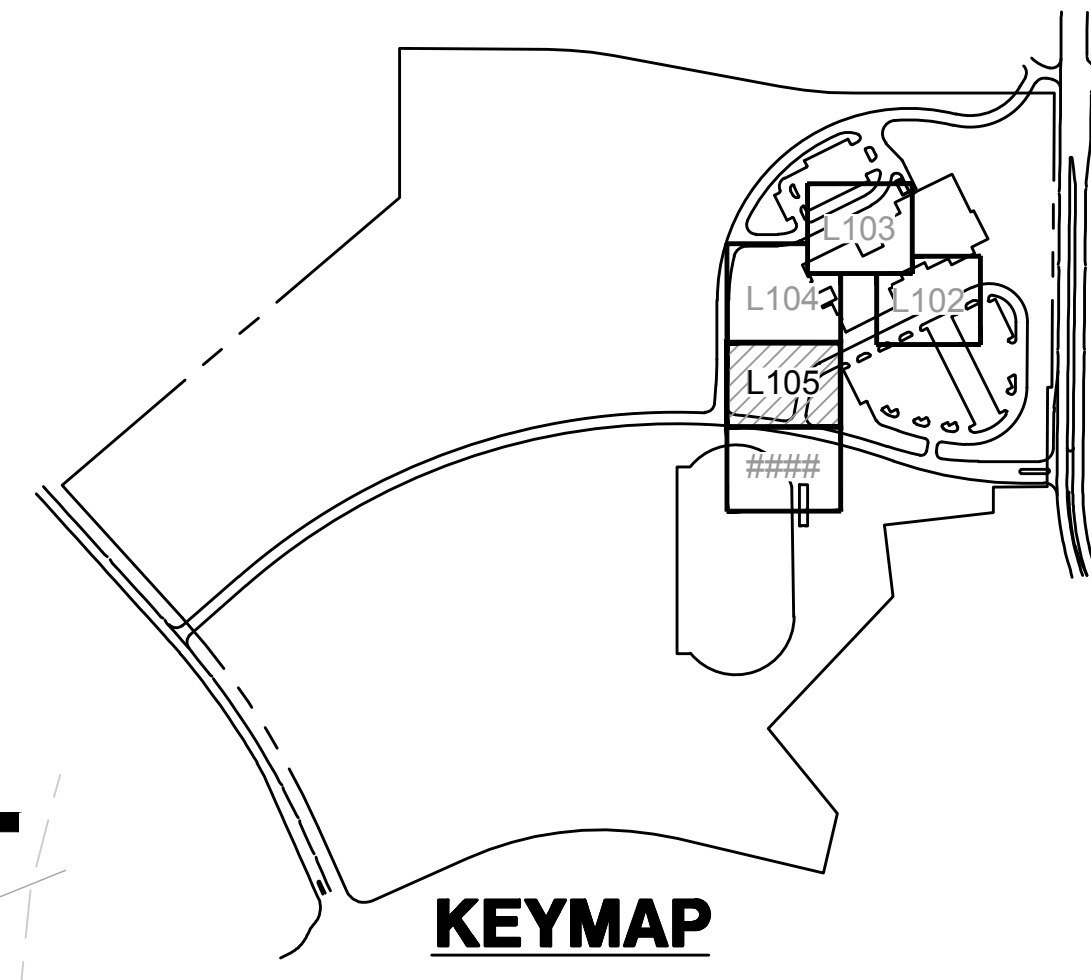
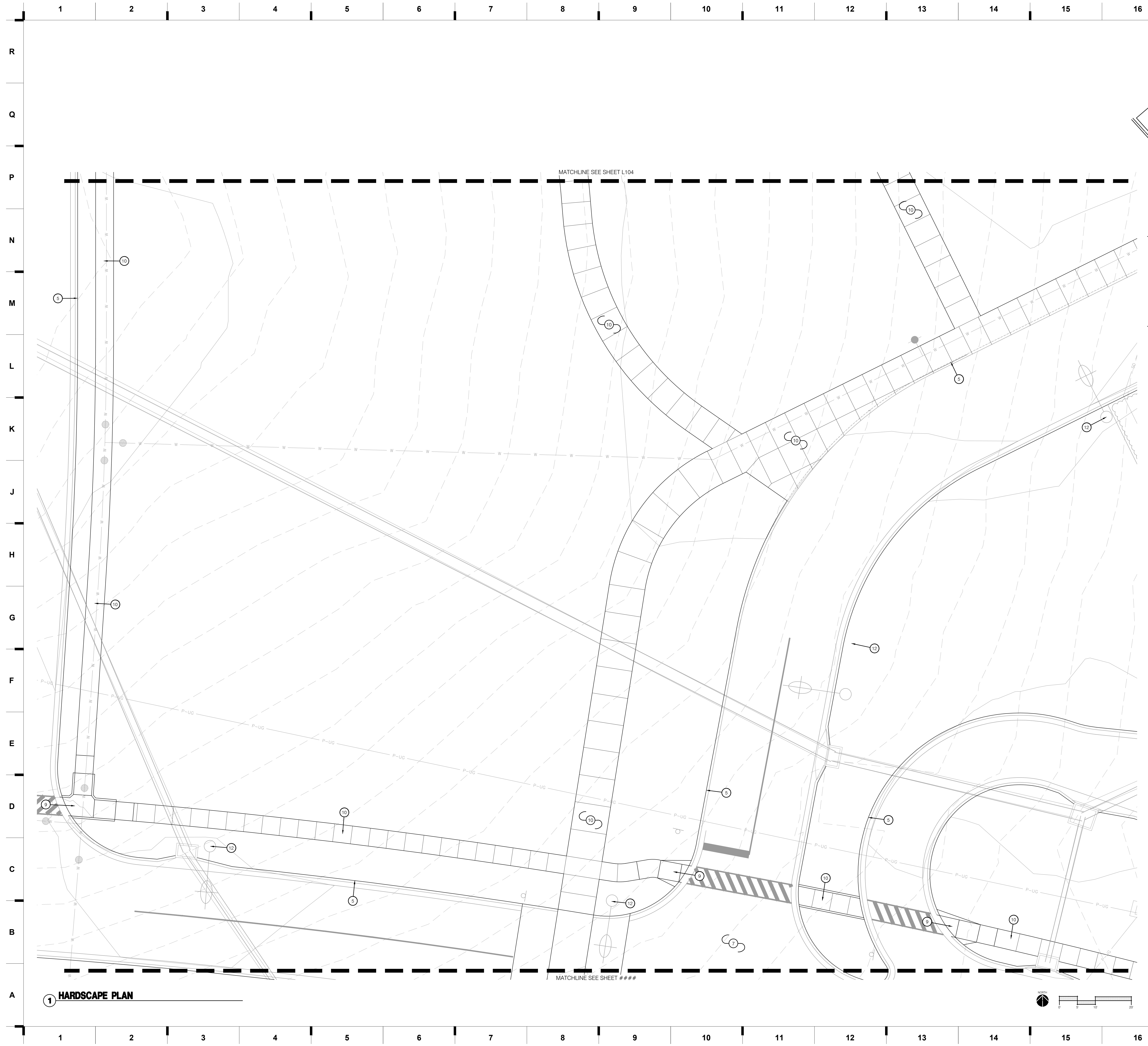
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L103
 HARDSCAPE PLAN

4/6/2021 7:41:42 AM



- HARDSCAPE LEGEND:**
- LIMITS OF CONSTRUCTION
 - - - RIGHT OF WAY / PROPERTY LINE
 - - - SHEET MATCHLINE
 - [Pattern] GRAY CONCRETE
 - [Pattern] INTEGRAL COLOR CONCRETE #1
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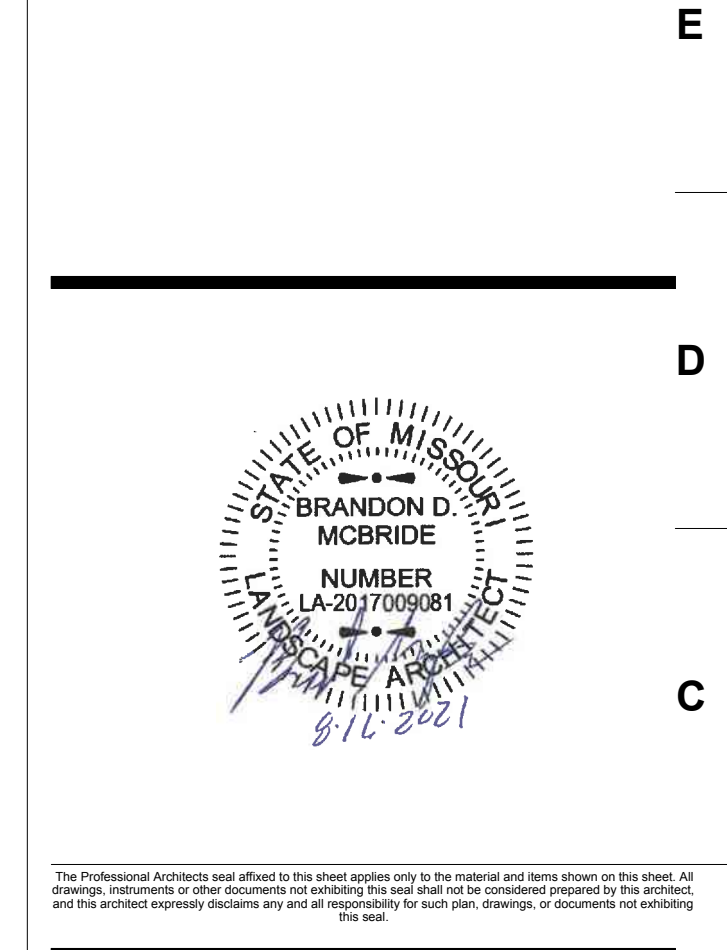
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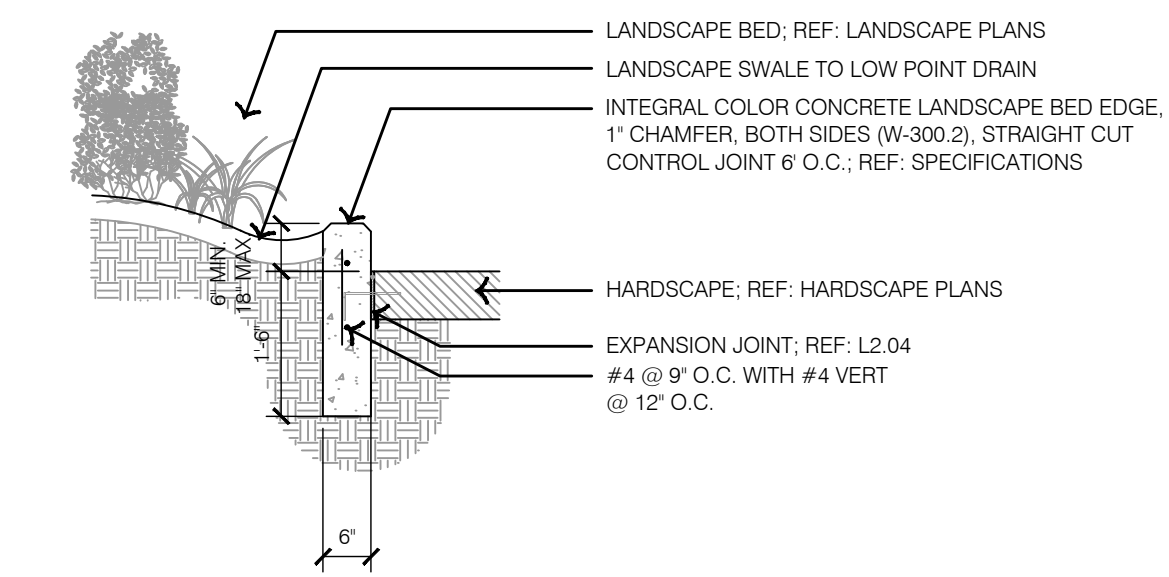
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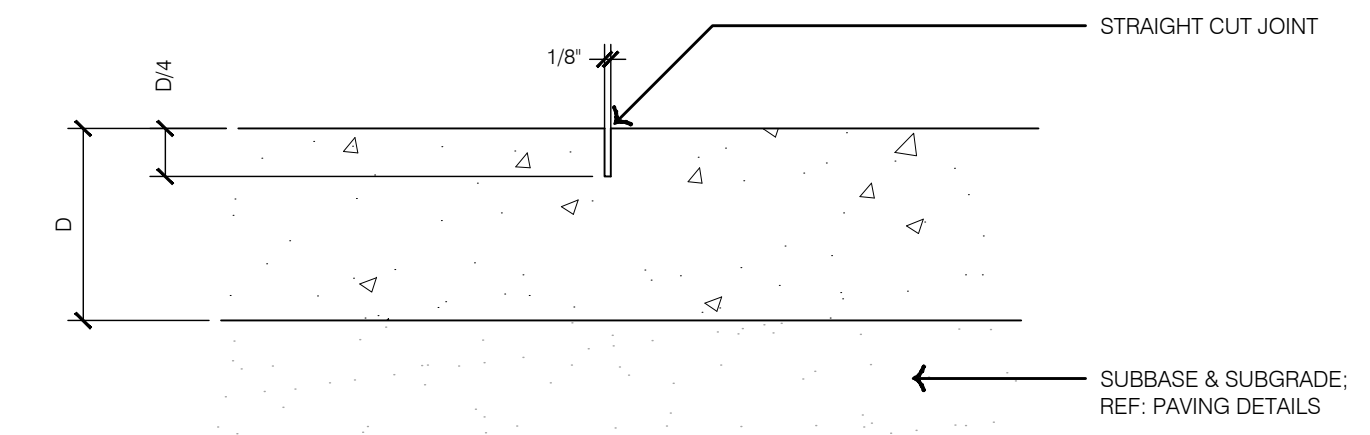
L104

HARDSCAPE PLAN

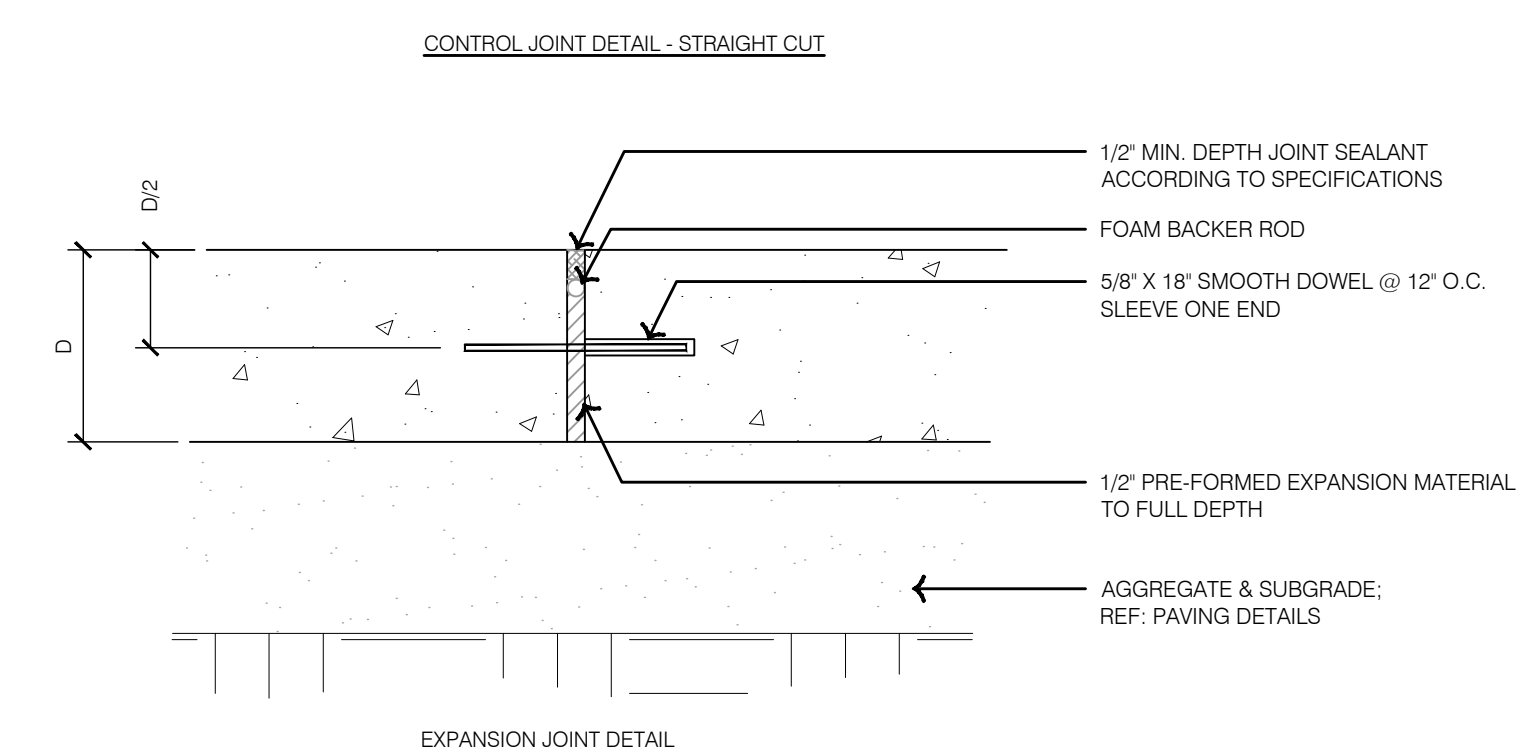
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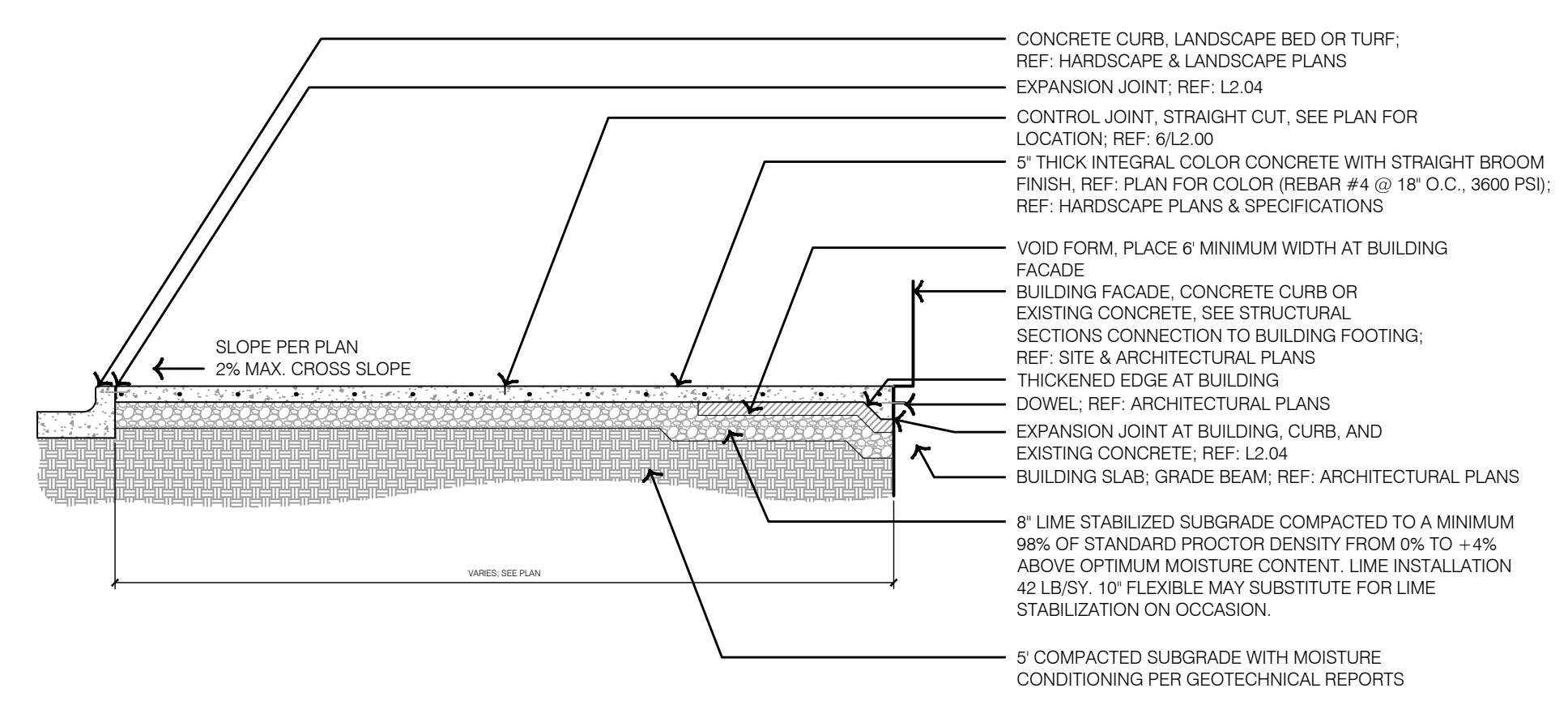
4 TYPICAL LANDSCAPE BED EDGE DETAIL



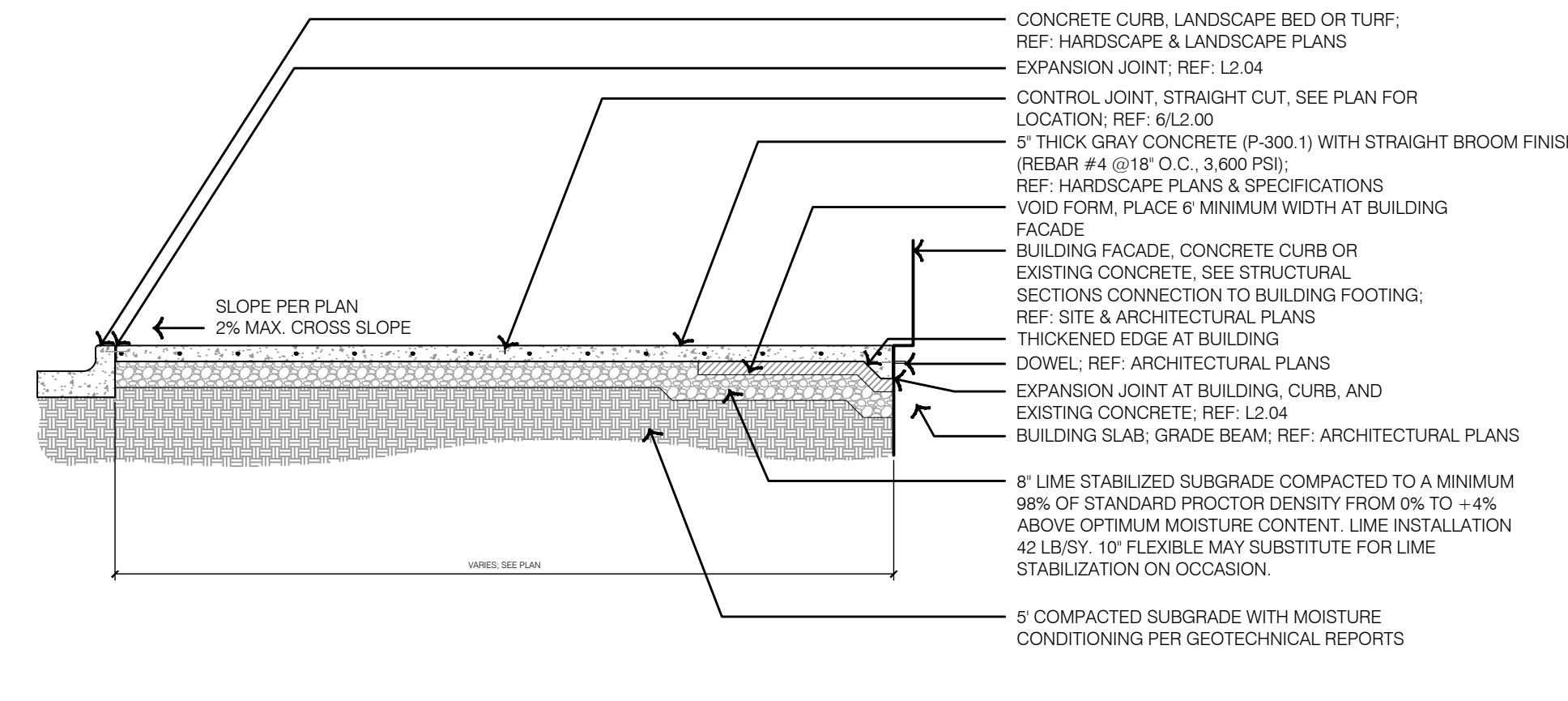
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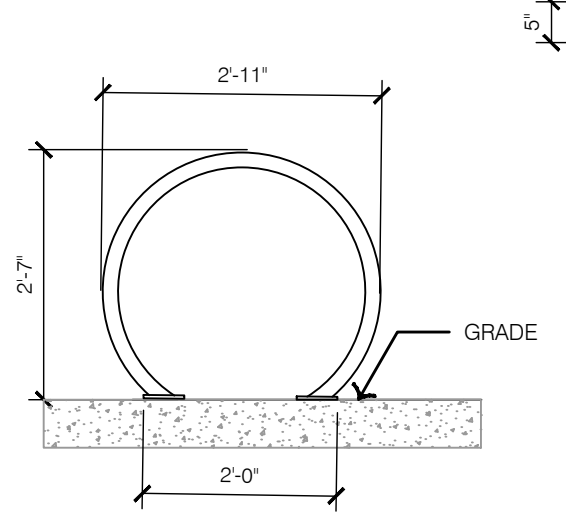
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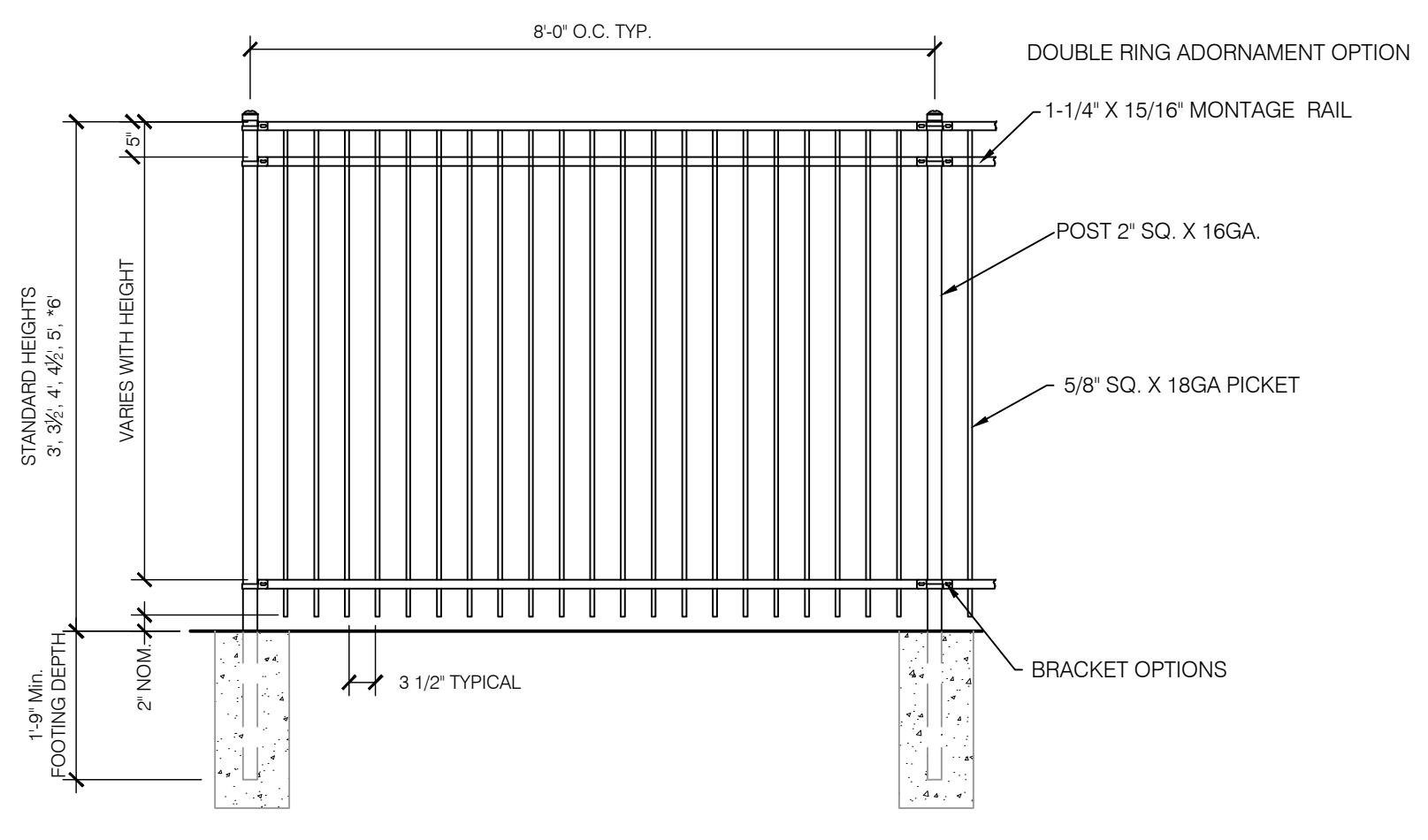
2 TYPICAL INTEGRAL COLOR CONCRETE DETAIL



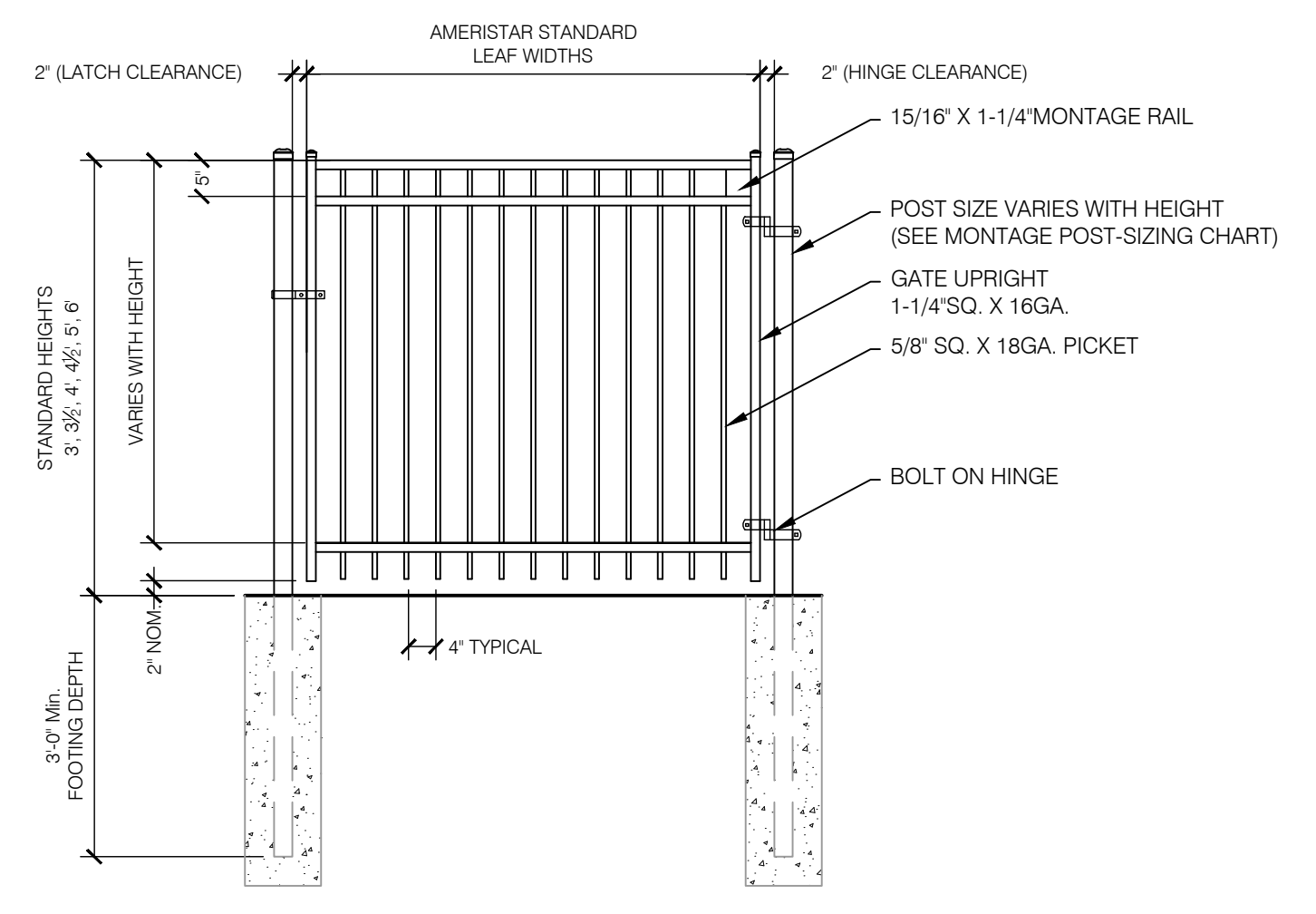
1 TYPICAL GRAY CONCRETE DETAIL



6 TYPICAL BIKE RACK DETAIL - BELSON STEEL 2 CIRCULAR



7 TYPICAL 6' FENCE DETAIL- AMERISTAR MONTAGE MAJESTIC



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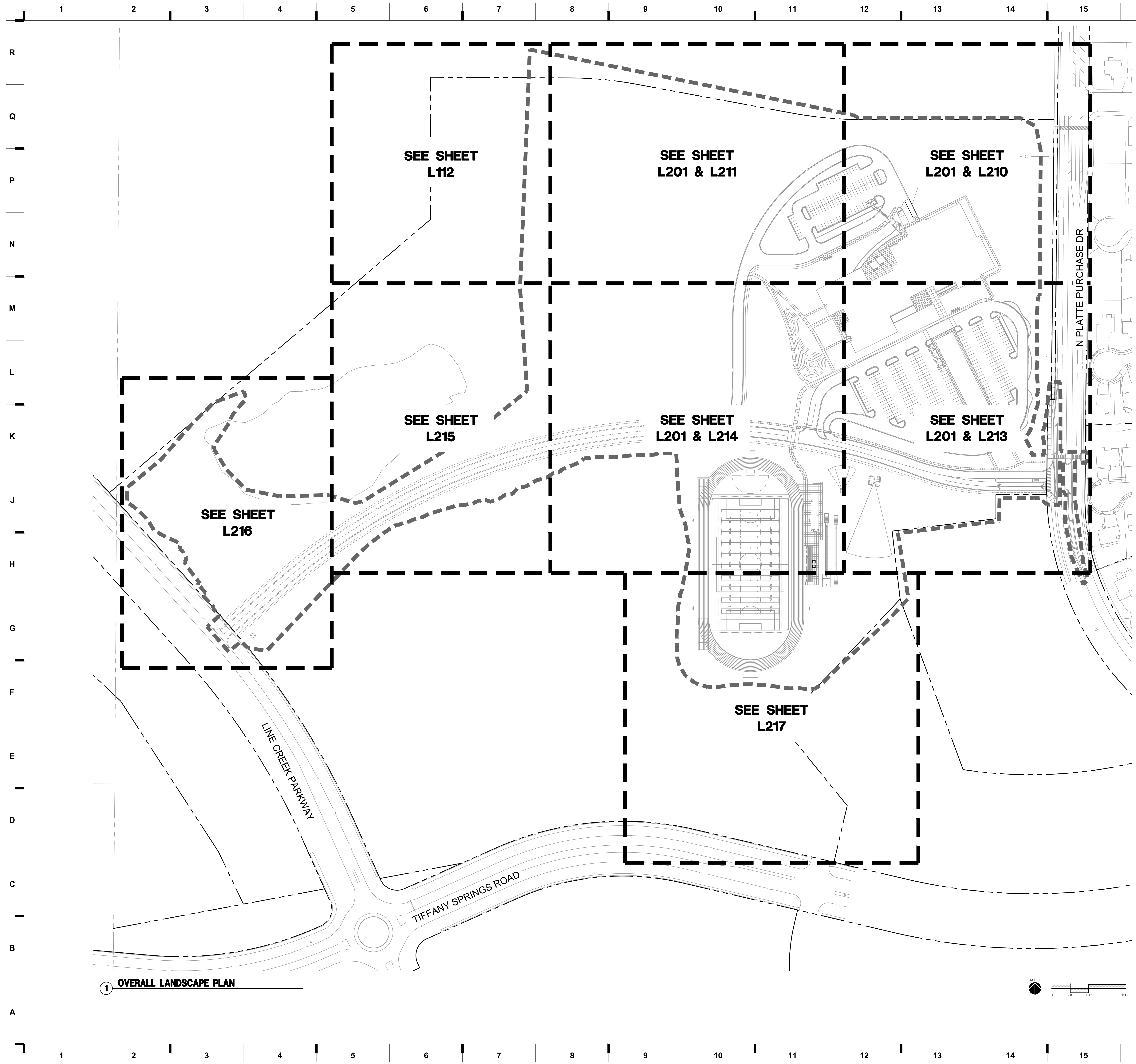


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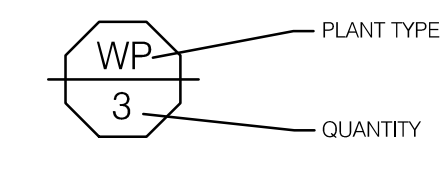
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L190



LANDSCAPE GENERAL NOTES:

1. THE CONSTRUCTION COVERED BY THESE PLANS SHALL CONFORM TO ALL APPLICABLE STANDARDS AND SPECIFICATIONS OF THE CITY OF KANSAS CITY, MISSOURI IN CURRENT USAGE. ALL STANDARDS NOT COVERED BY THE CITY SHALL BE APWA STANDARDS IN CURRENT USAGE UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL EXISTING UTILITIES, DRAIN LINES AND IRRIGATION PIPING PRIOR TO COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES, DRAIN LINES AND IRRIGATION PIPING.
3. CONTRACTOR SHALL VERIFY AND COORDINATE ALL FINAL GRADES WITH LANDSCAPE ARCHITECT PRIOR TO COMPLETION.
4. DEBRIS SHALL NOT BE ALLOWED TO ACCUMULATE AND SHALL BE REMOVED AT FREQUENT INTERVALS. AT COMPLETION OF WORK IN EACH AREA, THE CONTRACTOR SHALL GATHER AND REMOVE ALL DEBRIS, EQUIPMENT, AND EXCESS MATERIAL FROM THAT AREA. AT FINAL COMPLETION OF ALL WORK HE SHALL REMOVE ALL SUCH ITEMS FROM THE PREMISES.
5. LOCATION AND PLACEMENT OF ALL PLANT MATERIAL SHALL BE COORDINATED WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
6. THE LANDSCAPE PLANTING PLAN GRAPHICALLY ILLUSTRATES OVERALL PLANT MASSINGS. EACH PLANT SPECIES SHALL BE PLACED IN THE FIELD TO UTILIZE THE GREATEST COVERAGE OF THE GROUND PLANE. THE FOLLOWING APPLIES FOR INDIVIDUAL PLANTINGS:
 - ALL EVERGREEN SHRUBS AND CREEPING GROUNDCOVERS SHALL BE MINIMUM OF 2' FROM ANY PAVING EDGE.
 - ALL PLANTS OF THE SAME SPECIES SHALL BE EQUALLY SPACED AND SITED FOR THE BEST AESTHETIC VIEWING.
 - ALL TREES, EVERGREEN OR DECIDUOUS, SHALL BE A MINIMUM OF 4' FROM ANY PAVING EDGE.
7. ANY SUBSTITUTION OF SPECIFIED PLANT MATERIAL WILL NOT BE ALLOWED WITHOUT WRITTEN AUTHORIZATION FROM LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
8. MULCH ALL PLANTING AREAS TO A DEPTH OF 3" DEPTH ACCORDING TO PLANS AND SPECIFICATIONS. SAMPLES SHALL BE APPROVED BY LANDSCAPE ARCHITECT.
9. ALL PLANT MATERIAL WILL BE HEALTHY, VIGOROUS AND FREE OF DISEASE AND INSECTS PER AAN STANDARDS. LANDSCAPE ARCHITECT RESERVES THE RIGHT TO REJECT ANY INFERIOR OR OTHERWISE UNSUITABLE PLANT MATERIAL PROPOSED FOR USE ON THE PROJECT.
10. ALL PLANTING BEDS NOT FULLY CONTAINED BY CONCRETE CURBS OR WALKS SHALL BE EDGED ACCORDING TO PLANS AND SPECIFICATIONS.
11. PLANTS AND LANDSCAPE MATERIALS SHALL BE INSTALLED AS DETAILED ON PLANS.
12. PLANT BACKFILL FOR TREES AND SHRUBS SHALL BE PER SPECIFICATIONS.
13. ALL PLANTING BEDS SHALL BE TREATED WITH DACTHAL PRE-EMERGENT HERBICIDE AT MANUFACTURER RECOMMENDED RATES AND SHALL BE COVERED WITH SPECIFIED MULCH APPLICATION. APPLY LIGHTER APPLICATION OF DACTHAL HERBICIDE TO TOP OF MULCH LAYER.
14. ALL AREAS DISTURBED DURING CONSTRUCTION THAT ARE NOT DESIGNATED AS PLANTING BEDS OR PAVEMENT AREAS SHALL BE SEED WITH A TURF TYPE TALL FESCUE PER SPECIFICATIONS.
15. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR AFTER OWNER'S FINAL ACCEPTANCE OF FINISHED JOB. ALL DEAD AND DAMAGED PLANT MATERIAL SHALL BE REPLACED BY LANDSCAPE CONTRACTOR AT THEIR EXPENSE. LANDSCAPE CONTRACTOR SHALL MAINTAIN PLANT MATERIAL UNTIL FINAL ACCEPTANCE.
16. ALL LANDSCAPE BEDS SHALL BE MOUNDED AS SHOWN ON PLANS AND DETAILS.
17. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ACTUAL PLANT QUANTITIES REQUIRED TO COMPLETE THE PROJECT AS SHOWN ON THE PLANS, AND BASE THEIR BID ACCORDINGLY.
18. PLANT KEY DESCRIPTION.



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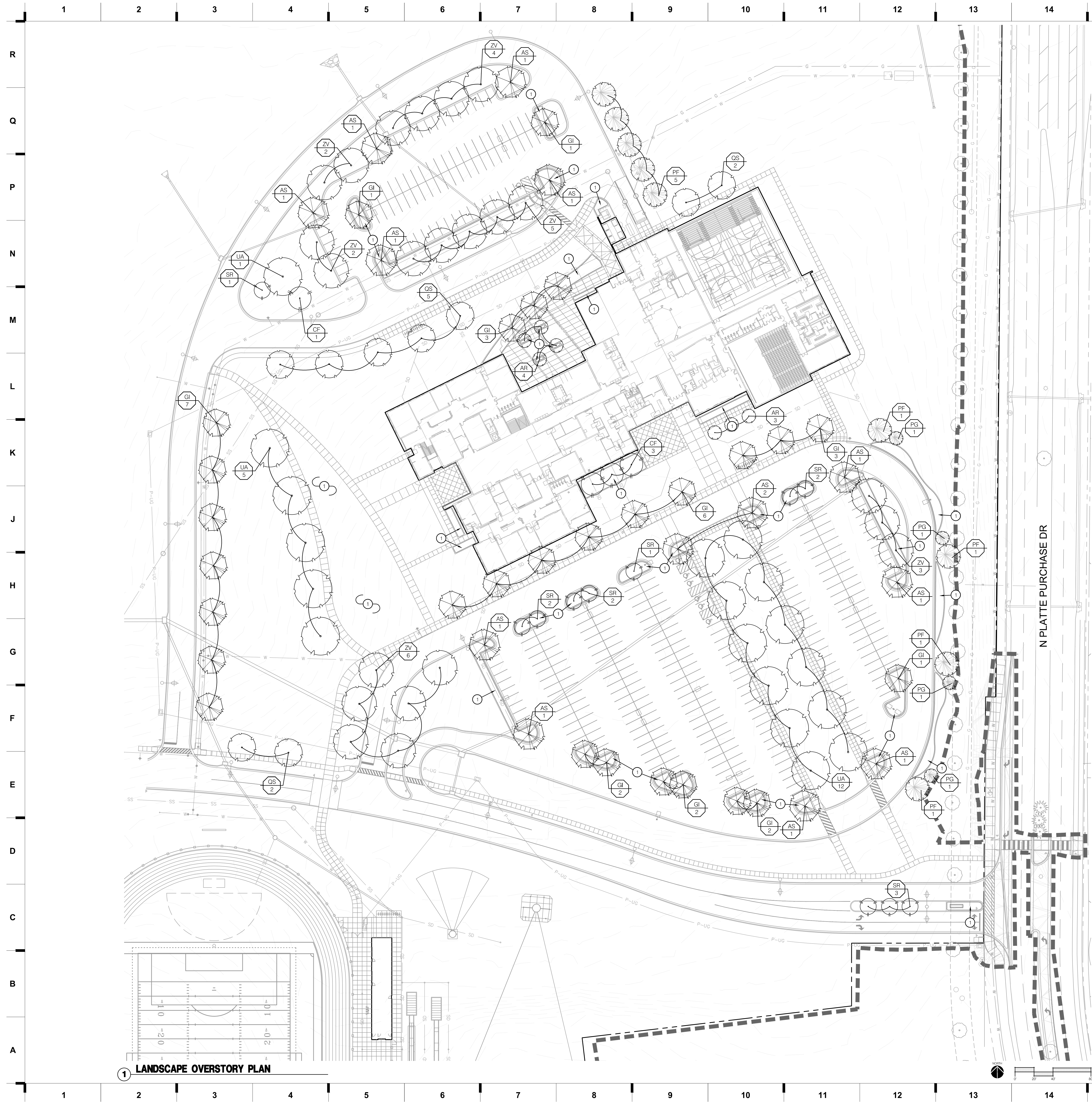
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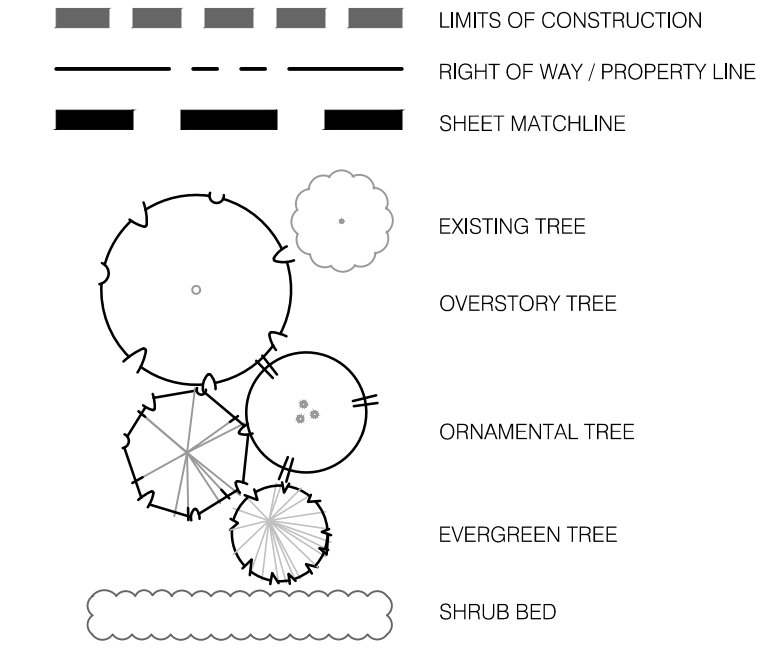
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L200



LANDSCAPE OVERSTORY LEGEND:



LANDSCAPE OVERSTORY PLAN NOTES:

- ① PLANTING BED; REF: LANDSCAPE GENERAL NOTES, LANDSCAPE DETAILS

OVERSTORY PLANT SCHEDULE

DECIDUOUS TREES	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
AR	ACER RUBRUM 'COLLUMNARE'	COLLUMNAR RED MAPLE	2' CAL	B&B
AS	ACER SACCHARUM BALSATA 'TM'	FALL FIESTA SUGAR MAPLE	2' CAL	B&B
GI	GLEDTISIA THIRACANTHOS INERMIS 'SKYCOLE 'TM'	SKYLINE HONEY LOCUST	2' CAL	B&B
OS	QUERCUS SHUMARDII	SHUMARD OAK	2' CAL	B&B
UA	ULMUS PARVIFOLIA 'ALLEE' 'TM'	ALLEE LACEBARK ELM	2' CAL	B&B
ZV	ZELKOVA SERRATA 'VILLAGE GREEN'	VILLAGE GREEN SAWLEAF ZELKOVA	2' CAL	B&B
EVERGREEN TREES	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
PG	PICEA GLAUCA	WHITE SPRUCE	5' MIN. HT.	B&B
PF	FINUS FLEXILIS 'VANDERWOLF'S PYRAMID'	VANDERWOLF'S PYRAMID LUMBER PINE	5' MIN. HT.	B&B
ORNAMENTAL TREES	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER
CF	CORNUS FLORIDA 'CHEROKEE BRAVE'	CHEROKEE BRAVE DOGWOOD	2' CAL	B&B
SR	SYRINGA RETICULATA 'IVORY SILK'	IVORY SILK JAPANESE TREE LILAC	2' CAL	B&B

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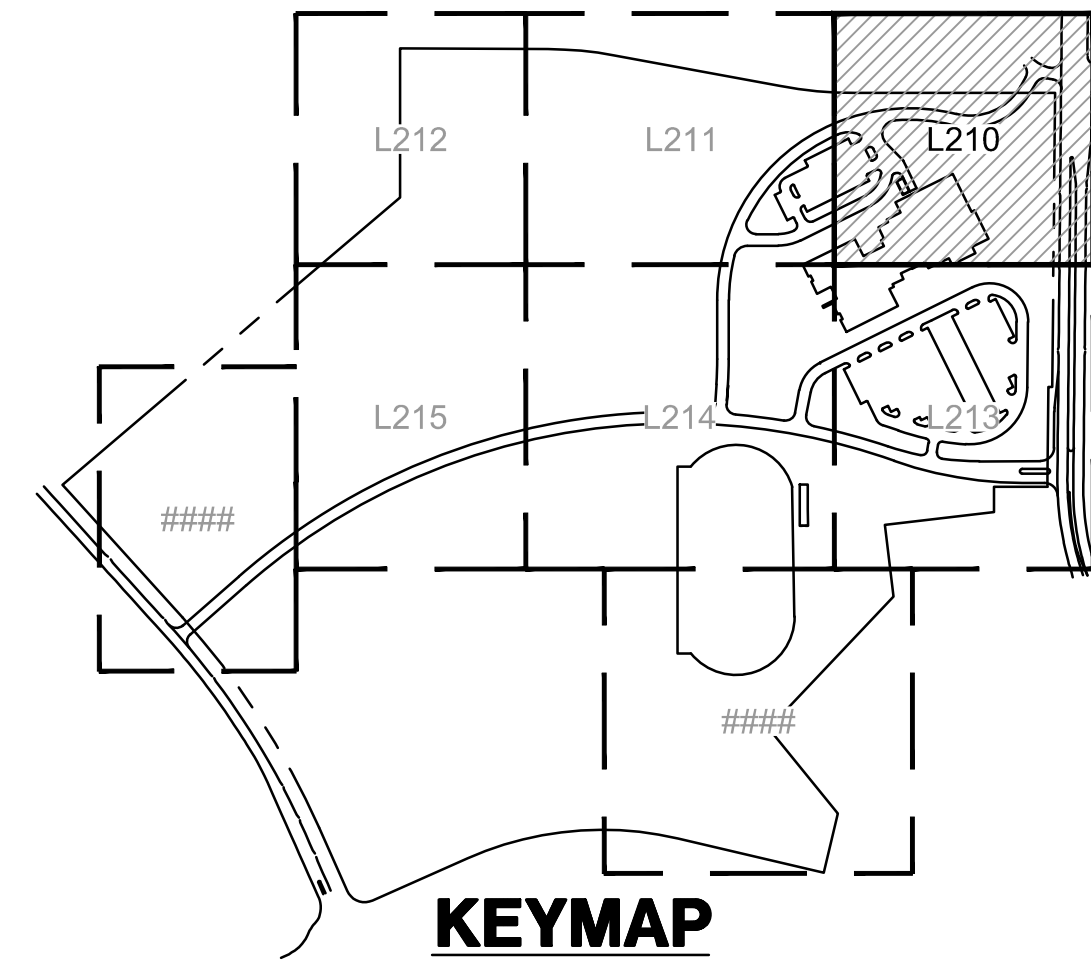
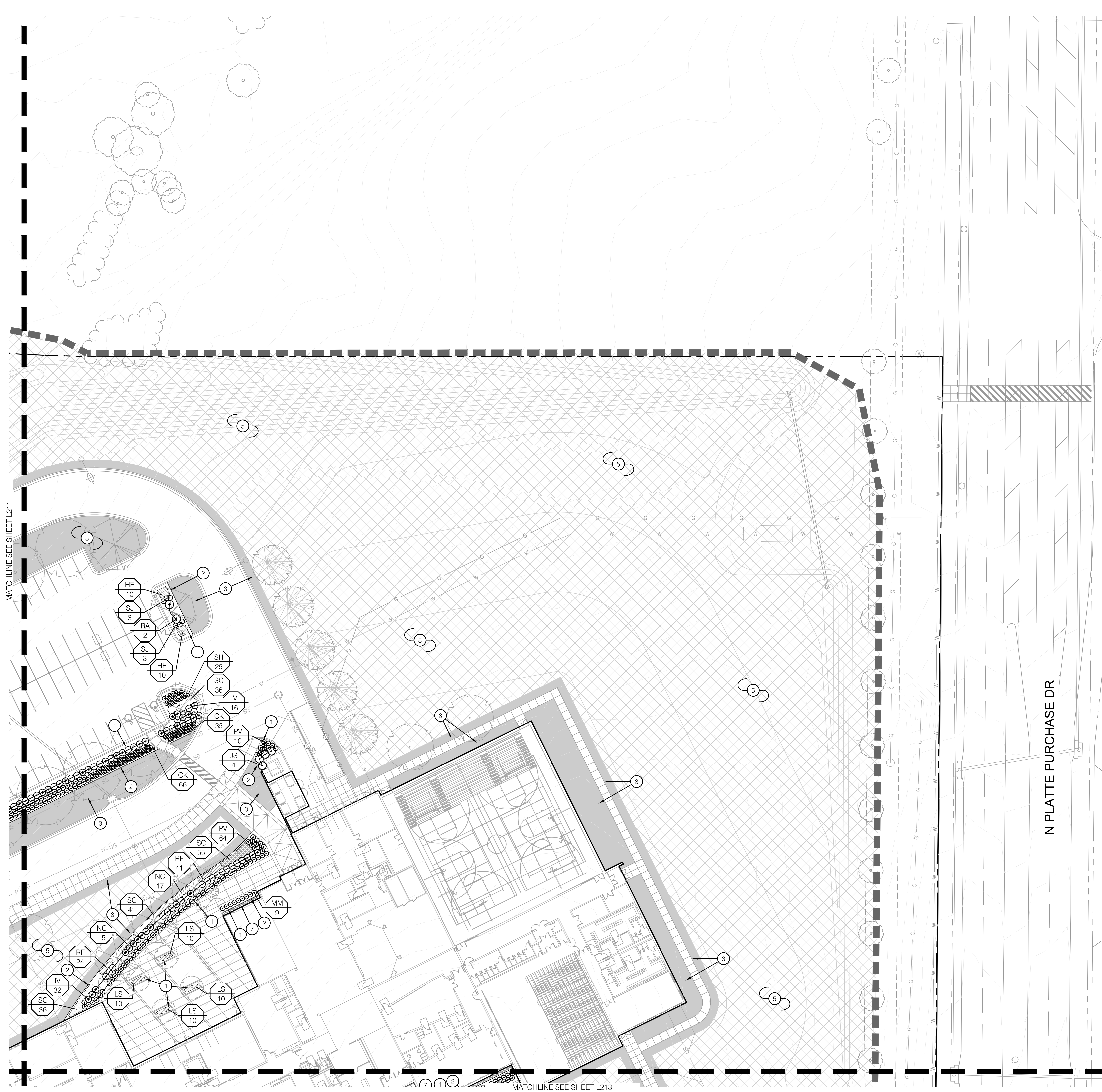


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L201



LANDSCAPE UNDERSTORY LEGEND:

- LIMITS OF CONSTRUCTION
- - - RIGHT OF WAY / PROPERTY LINE
- - - SHEET MATCHLINE
- (Tree symbol) EXISTING TREE
- (Tree canopy symbol) EXISTING TREE CANOPY
- (Tree symbol) OVERSTORY TREE
- (Tree symbol) ORNAMENTAL TREE
- (Tree symbol) EVERGREEN TREE
- [Hatched box] TURF TYPE FESCUE SOD
- [Cross-hatched box] ALTERNATE TURF TYPE FESCUE SOD
- [Dotted box] TURF TYPE FESCUE SEED
- [Stippled box] NATIVE GRASS SEED MIX

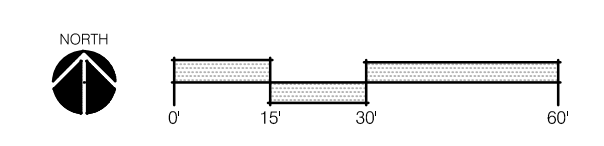
LANDSCAPE UNDERSTORY PLAN NOTES:

- 1 PLANTING BED WITH HARDWOOD MULCH; REF: LANDSCAPE GENERAL NOTES, LANDSCAPE DETAILS, & SPECIFICATIONS
- 2 INSTALL STEEL BED EDGE; REF: 5/L290
- 3 AREA TO BE SODDED WITH TURF TYPE FESCUE SOD; REF: SPECIFICATIONS
- 4 ALTERNATE AREA TO BE SODDED WITH TURF TYPE FESCUE SOD; REF: SPECIFICATIONS
- 5 AREA TO BE SEEDED WITH TURF TYPE FESCUE SEED; REF: SPECIFICATIONS
- 6 AREA TO BE SEEDED WITH NATIVE SEED MIX; REF: SPECIFICATIONS
- 7 INSTALL RIVER ROCK; REF: SPECIFICATIONS

UNDERSTORY PLANT SCHEDULE

DECIDUOUS SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	
DV	ITEA VIRGINICA 'LITTLE HENRY'	LITTLE HENRY SWEETSPIRE	5 GAL	CONT.	
PD	PHYSOCARPUS OPILOLIQIUS 'DONNA MAY' TM	LITTLE DEVIL NINEBARK	5 GAL	CONT.	
PB	PHYSOCARPUS OPILOLIQIUS 'MONLO' TM	DIABOLO NINEBARK	5 GAL	CONT.	
RA	RHUS AROMATICA 'GRD-LW'	GRD-LW FRAGRANT SUMAC	5 GAL	CONT.	
SJ	SPIRAEA JAPONICA 'GOLDMOUND'	GOLDMOUND JAPANESE SPIREA	5 GAL	CONT.	
EVERGREEN SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	
CP	CHAMAECPARIS 'PISIFERA' 'GOLDEN MOP'	GOLDEN MOP THREADED SAWARA CYPRESS	5 GAL	CONT.	
JS	JUNIPERUS X PRITZERIANA 'SEA GREEN'	SEA GREEN PRITZER JUNIPER	5 GAL	CONT.	
ORNAMENTAL GRASSES	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	
CK	CALLAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	3 GAL	CONT.	
MM	MISCANTHUS SINENSIS 'MORNING LIGHT'	MORNING LIGHT ELULALIA GRASS	3 GAL	CONT.	
PV	PANICUM VIRGATUM 'SHENANDOA'	SHENANDOA SWITCH GRASS	3 GAL	CONT.	
SH	SPOROBIOLUS HETEROLEPIS	PRAIRIE DROPSSEED	3 GAL	CONT.	
PERENNIALS	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING
HE	HEMEROCALLIS X PARSON ME'	PARSON ME DAYLILY	1 GAL	CONT.	24" o.c.
LS	LIROPE SPICATA	CREeping LILYTURF	1 GAL	CONT.	18" o.c.
NC	NEPETA X CATS 'PAJAMAS'	CATS PAJAMAS CATMINT	1 GAL	CONT.	18" o.c.
RF	RUDBECKIA FULGIDA 'SULLIVANT'	LITTLE GOLDSTAR CONFLOWER	1 GAL	CONT.	14" o.c.
SC	SALVIA NEMOROSA 'CARADONNA'	CARDONNA MEADOW SAGE	1 GAL	CONT.	18" o.c.

1 LANDSCAPE UNDERSTORY PLAN



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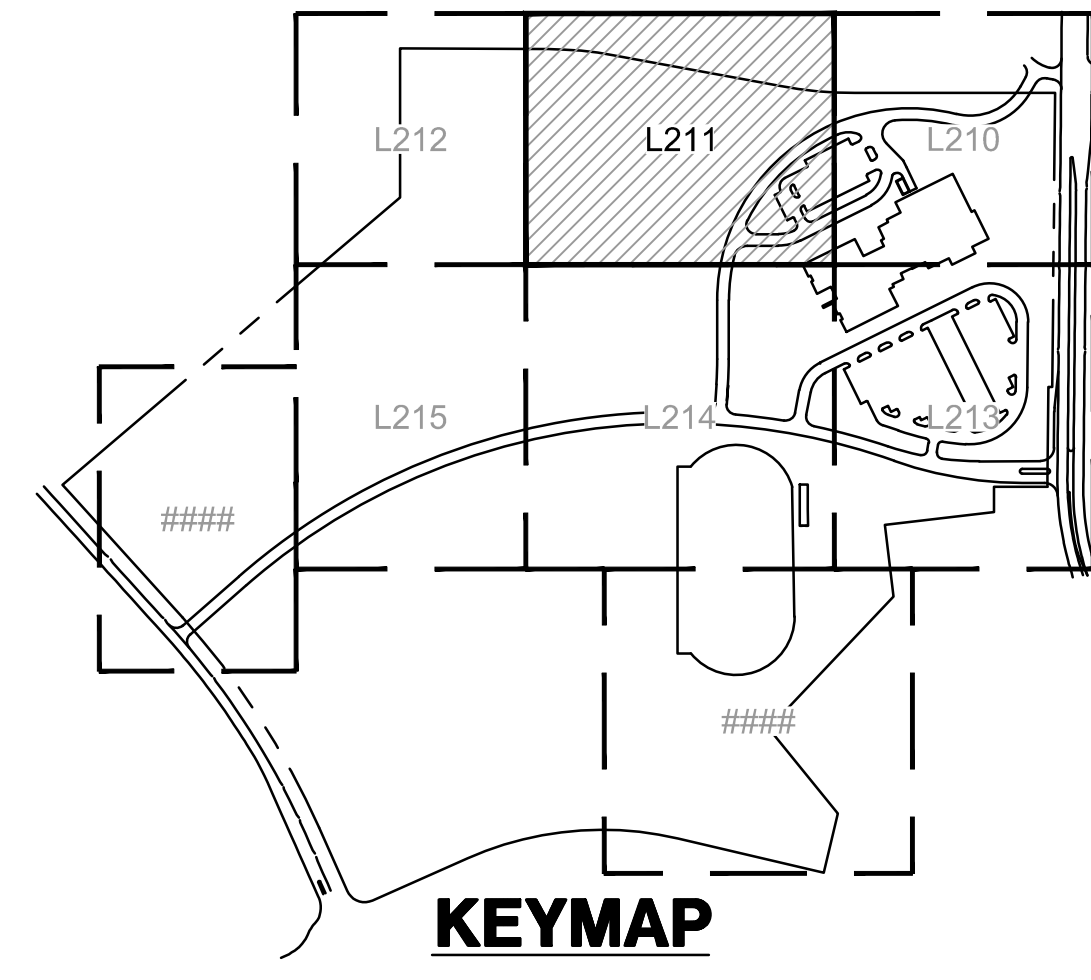
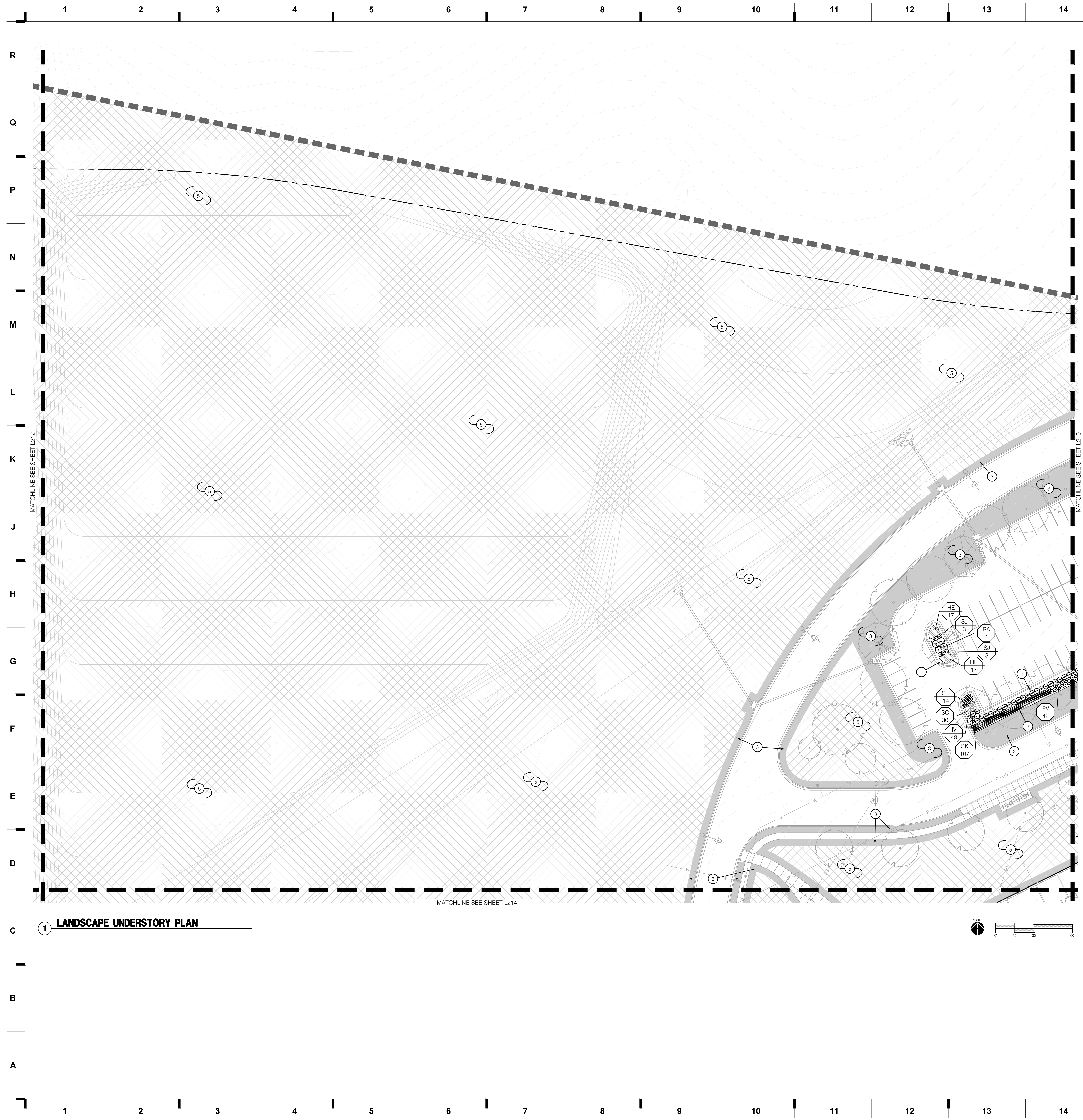


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L210



LANDSCAPE UNDERSTORY LEGEND:

- LIMITS OF CONSTRUCTION
- - - RIGHT OF WAY / PROPERTY LINE
- - - SHEET MATCHLINE
- (T) EXISTING TREE
- (T) EXISTING TREE CANOPY
- (T) OVERSTORY TREE
- (T) ORNAMENTAL TREE
- (T) EVERGREEN TREE
- [Pattern] TURF TYPE FESCUE SOD
- [Pattern] ALTERNATE TURF TYPE FESCUE SOD
- [Pattern] TURF TYPE FESCUE SEED
- [Pattern] NATIVE GRASS SEED MIX

LANDSCAPE UNDERSTORY PLAN NOTES:

- 1 PLANTING BED WITH HARDWOOD MULCH; REF: LANDSCAPE GENERAL NOTES, LANDSCAPE DETAILS, & SPECIFICATIONS
- 2 INSTALL STEEL BED EDGE; REF: 5/L290
- 3 AREA TO BE SODDED WITH TURF TYPE FESCUE SOD; REF: SPECIFICATIONS
- 4 ALTERNATE AREA TO BE SODDED WITH TURF TYPE FESCUE SOD; REF: SPECIFICATIONS
- 5 AREA TO BE SEEDED WITH TURF TYPE FESCUE SEED; REF: SPECIFICATIONS
- 6 AREA TO BE SEEDED WITH NATIVE SEED MIX; REF: SPECIFICATIONS
- 7 INSTALL RIVER ROCK; REF: SPECIFICATIONS

UNDERSTORY PLANT SCHEDULE

PLANT	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
SC	SCIRPUS SPICATUS	SCIRPUS SPICATUS	5 GAL	CONT.
IV	IVEA VIRGINICA 'LITTLE HENRY'	LITTLE HENRY SWEETSPRUE	5 GAL	CONT.
PO	PHYSOCARPUS OPULIFOLIUS 'DONNA MAY TM'	LITTLE DEVIL NINEBARK	5 GAL	CONT.
PB	PHYSOCARPUS OPULIFOLIUS 'MONLOI TM'	DIABOLO NINEBARK	5 GAL	CONT.
RA	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	5 GAL	CONT.
SJ	SPIRAEA JAPONICA 'GOLDMOUND'	GOLDMOUND JAPANESE SPIREA	5 GAL	CONT.
HE	HEMEROCALLIS X PARDON ME'	PARDON ME DAVID LILY	1 GAL	CONT.
OP	CHAMAECYPARIS PISIFERA 'GOLDEN MOP'	GOLDEN MOP THREADED SAWARA CYPRESS	5 GAL	CONT.
JS	JUNIPERUS X PFTIZERIANA 'SEA GREEN'	SEA GREEN PFTIZER JUMPER	5 GAL	CONT.
CK	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	3 GAL	CONT.
MM	MISCANTHUS SINENSIS 'MORNING LIGHT'	MORNING LIGHT ELIJAH GRASS	3 GAL	CONT.
PV	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	3 GAL	CONT.
SH	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSSEED	3 GAL	CONT.
HE	HEMEROCALLIS X PARDON ME'	PARDON ME DAVID LILY	1 GAL	CONT.
LS	LIRIOPE SPICATA	CREeping LILYTURF	1 GAL	CONT.
NC	NEPETA X CATS PAJAMAS	CATS PAJAMAS CATMINT	1 GAL	CONT.
RF	RUDBECKIA FULGIDA 'SULLIVAN'	LITTLE GOLDSTAR CONEFLOWER	1 GAL	CONT.
SC	SALVIA NEMOROSA 'CARDONNA'	CARDONNA MEADOW SAGE	1 GAL	CONT.

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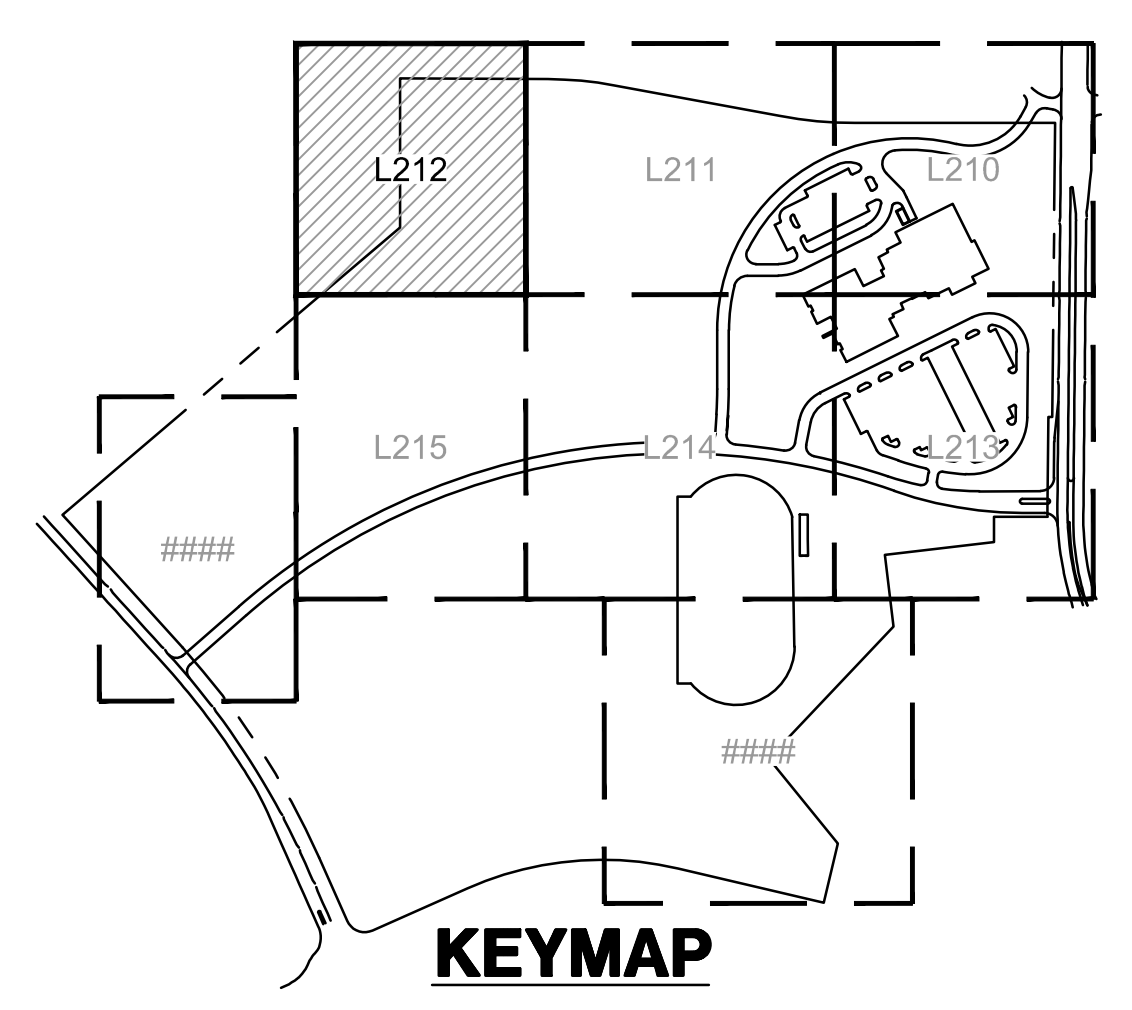
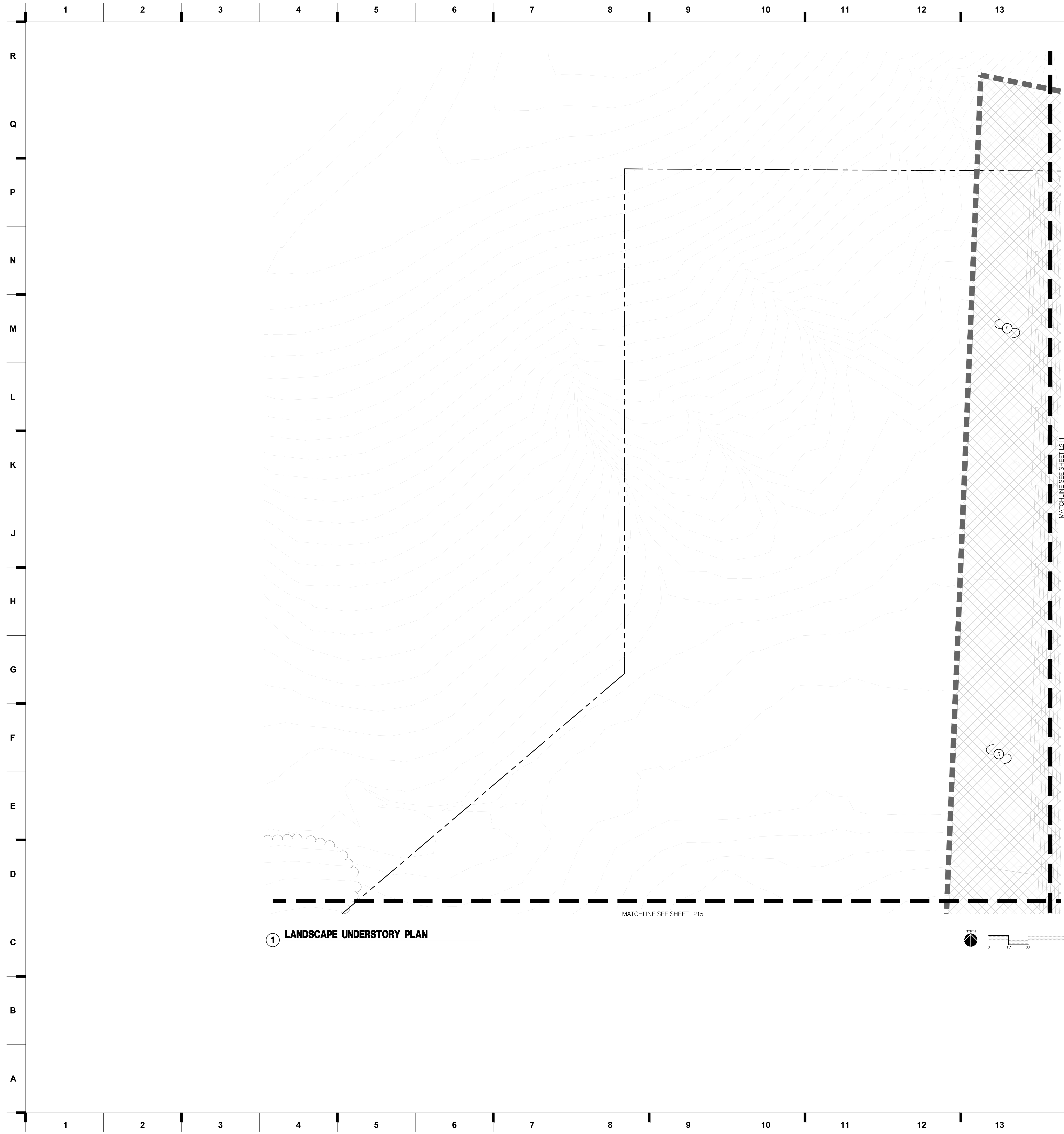
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L211



LANDSCAPE UNDERSTORY LEGEND:

- LIMITS OF CONSTRUCTION
- - - RIGHT OF WAY / PROPERTY LINE
- - - SHEET MATCHLINE
- (Tree symbol) EXISTING TREE
- (Canopy symbol) EXISTING TREE CANOPY
- (Large tree symbol) OVERSTORY TREE
- (Decorative tree symbol) ORNAMENTAL TREE
- (Evergreen tree symbol) EVERGREEN TREE
- (Turf symbol) TURF TYPE FESCUE SOD
- (Alternate turf symbol) ALTERNATE TURF TYPE FESCUE SOD
- (Seed symbol) TURF TYPE FESCUE SEED
- (Native grass symbol) NATIVE GRASS SEED MIX

LANDSCAPE UNDERSTORY PLAN NOTES:

- 1 PLANTING BED WITH HARDWOOD MULCH; REF: LANDSCAPE GENERAL NOTES, LANDSCAPE DETAILS, & SPECIFICATIONS
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- 7 INSTALL RIVER ROCK; REF: SPECIFICATIONS

UNDERSTORY PLANT SCHEDULE

DECIUOUS SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	
IV	ITEA VIRGINICA 'LITTLE HENRY'	LITTLE HENRY SWEETSPIRE	5 GAL	CONT.	
PO	PHYSCOCARPUS OPILOLEUCUS 'DONNA MAY' TM	LITTLE SEVE NINEBARK	5 GAL	CONT.	
PI	PHYSCOCARPUS OPILOLEUCUS 'MONLO' TM	DIABOLO NINEBARK	5 GAL	CONT.	
RA	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	5 GAL	CONT.	
SJ	SPHRAEA JAPONICA 'GOLDMOUND'	GOLDMOUND JAPANESE SPIREA	5 GAL	CONT.	
EVERGREEN SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	
CP	CHAMAECYPARIS PISIFERA 'GOLDEN MOP'	GOLDEN MOP THREADED LEAF SAWARA CYPRESS	5 GAL	CONT.	
JS	JUNIPERUS X PRITZERIANA 'SEA GREEN'	SEA GREEN PRITZER JUNIPER	5 GAL	CONT.	
ORNAMENTAL GRASSES	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	
CK	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	3 GAL	CONT.	
MM	MISCANTHUS SINENSIS 'MORNING LIGHT'	MORNING LIGHT ELEALUS GRASS	3 GAL	CONT.	
PV	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	3 GAL	CONT.	
SH	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSSEED	3 GAL	CONT.	
PERENNIALS	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING
HE	HEMEROCALLIS X PARDON ME'	PARDON ME DAFFILY	1 GAL	CONT.	26" o.c.
LS	LIRIOPE SPICATA	CREAKING LILYURE	1 GAL	CONT.	18" o.c.
NC	NEPETA X 'CATS PAJAMAS'	CAT'S PAJAMAS CATMINT	1 GAL	CONT.	18" o.c.
RF	RUDBECKIA FULGIDA 'SULLIVANTH'	LITTLE GOLDSTAR CONEFLOWER	1 GAL	CONT.	14" o.c.
SC	SALVA NEMOROSA 'CARDONNA'	CARDONNA MEADOW SAGE	1 GAL	CONT.	18" o.c.

1 LANDSCAPE UNDERSTORY PLAN

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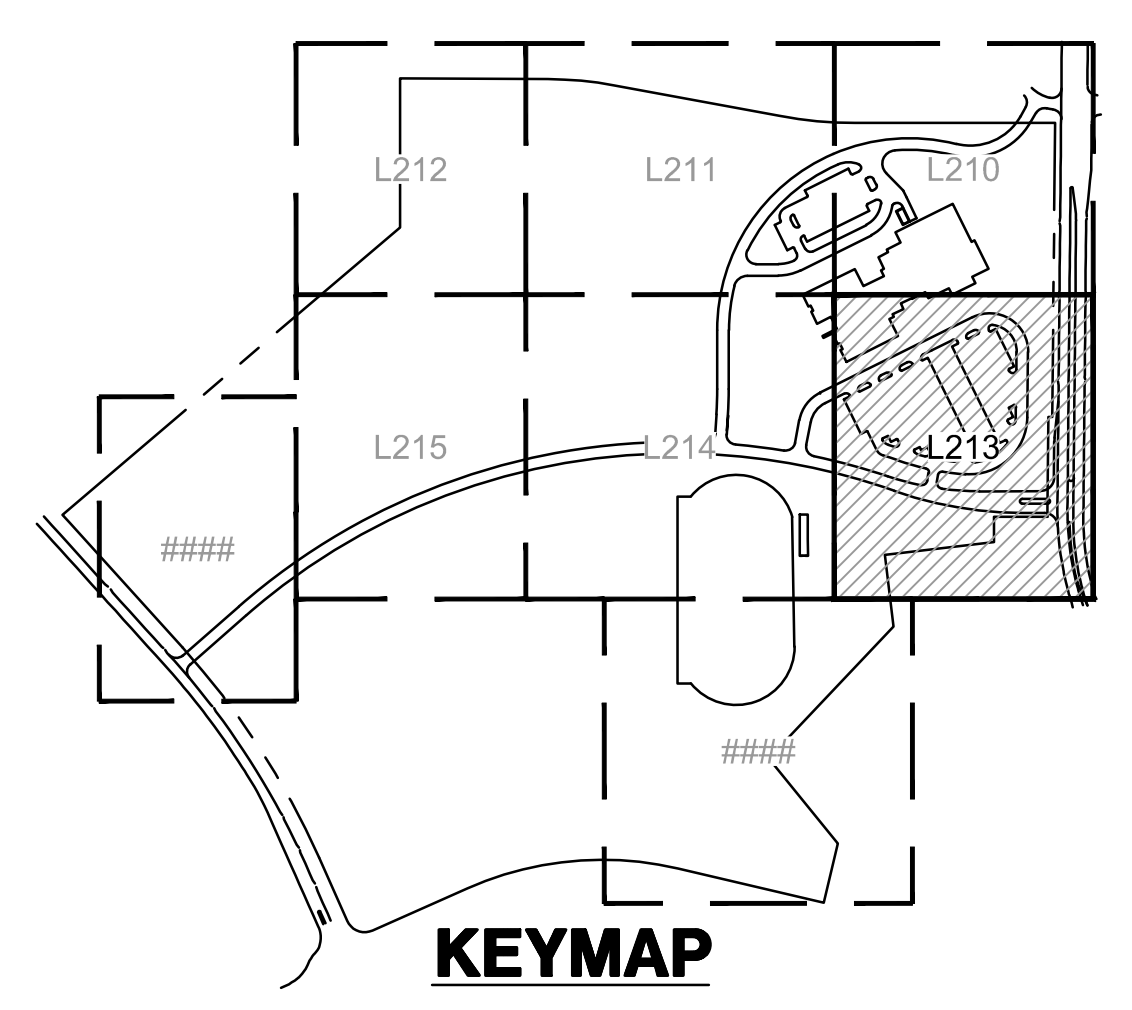
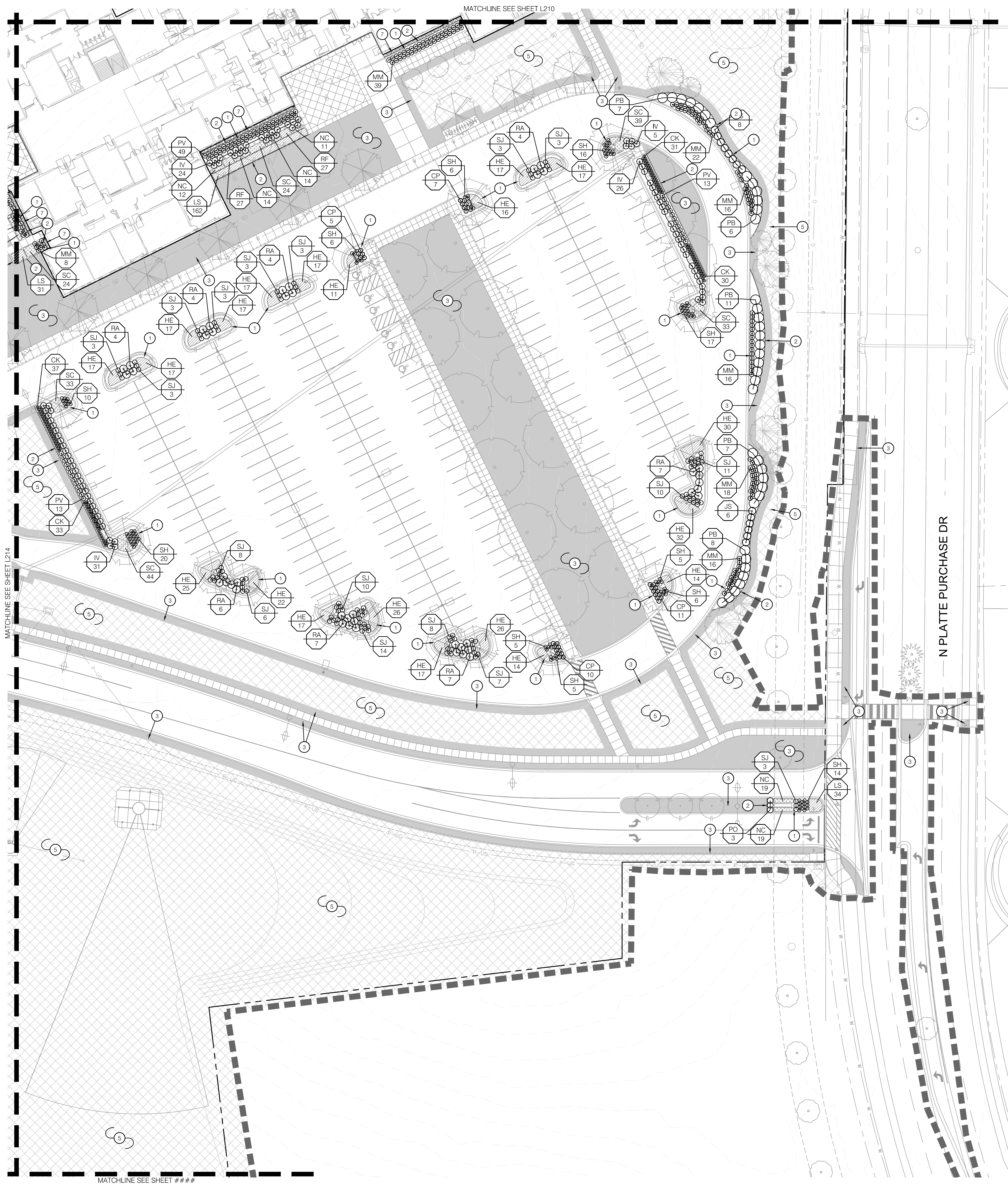
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LANDSCAPE UNDERSTORY LEGEND:

- LIMITS OF CONSTRUCTION
- RIGHT OF WAY / PROPERTY LINE
- SHEET MATCHLINE
- EXISTING TREE
- EXISTING TREE CANOPY
- OVERSTORY TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
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- ALTERNATE TURF TYPE FESCUE SOD
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- NATIVE GRASS SEED MIX

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- 1 PLANTING BED WITH HARDWOOD MULCH; REF: LANDSCAPE GENERAL NOTES, LANDSCAPE DETAILS, & SPECIFICATIONS
- 2 INSTALL STEEL BED EDGE; REF: 5/L290
- 3 AREA TO BE SODDED WITH TURF TYPE FESCUE SOD; REF: SPECIFICATIONS
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UNDERSTORY PLANT SCHEDULE

DECIUOUS SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	
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PB	PHYSCARPUS OPILOIPOLIS MONLO TM	DIABOLO NINEBARK	5 GAL.	CONT.	
RA	RHUS ARDMATICA 'GRLOW'	GRLOW FRAGRANT SUMAC	5 GAL.	CONT.	
SJ	SPIRAEA JAPONICA 'GOLDMOUND'	GOLDMOUND JAPANESE SPIREA	5 GAL.	CONT.	
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MM	MISCANTHUS SINENSIS 'MORNING LIGHT'	MORNING LIGHT EULALIA GRASS	3 GAL.	CONT.	
PV	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	3 GAL.	CONT.	
SH	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSIDE	3 GAL.	CONT.	
PERENNIALS	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING
HE	HEMEROCALLIS X PARDON ME'	PARDON ME DAYLILY	1 GAL.	CONT.	24" o.c.
LS	LIRIOPE SPICATA	CREEPING LILYTURF	1 GAL.	CONT.	18" o.c.
NC	NEPETA X CATS PAJAMAS'	CAT'S PAJAMAS CATMINT	1 GAL.	CONT.	18" o.c.
RF	RHIZOCOKIA FULGIDA SULLIVANTII 'LITTLE GOLDSTAR'	LITTLE GOLDSTAR CONEFLOWER	1 GAL.	CONT.	14" o.c.
SC	SALVIA NEMOROSA 'CARADONNA'	CARDONNA MEADOW SAGE	1 GAL.	CONT.	18" o.c.

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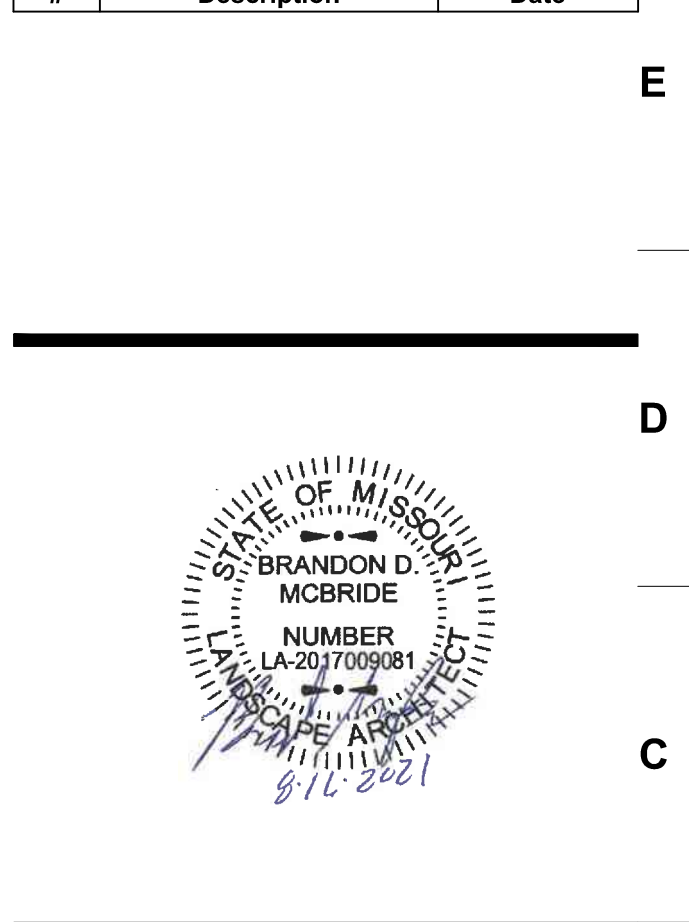
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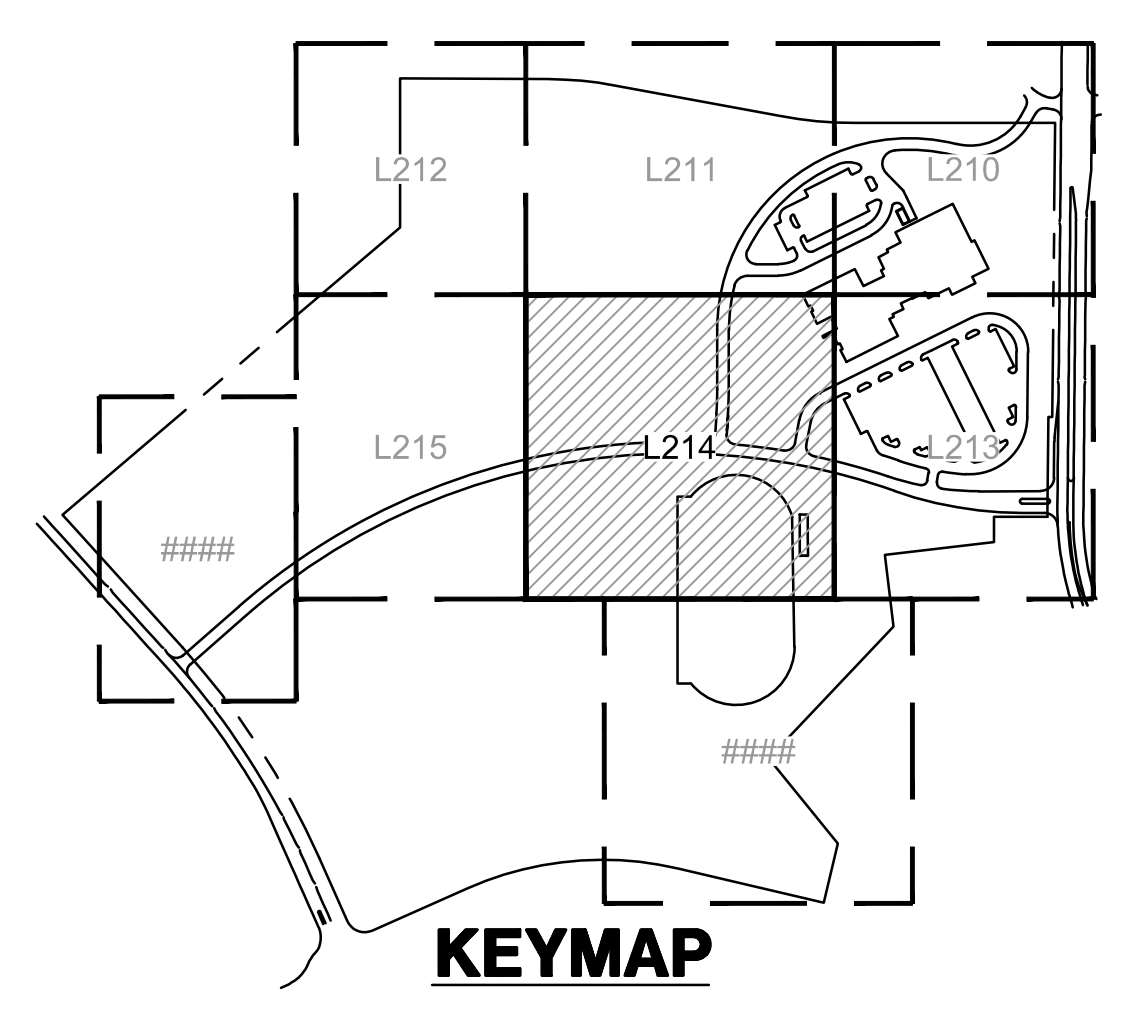
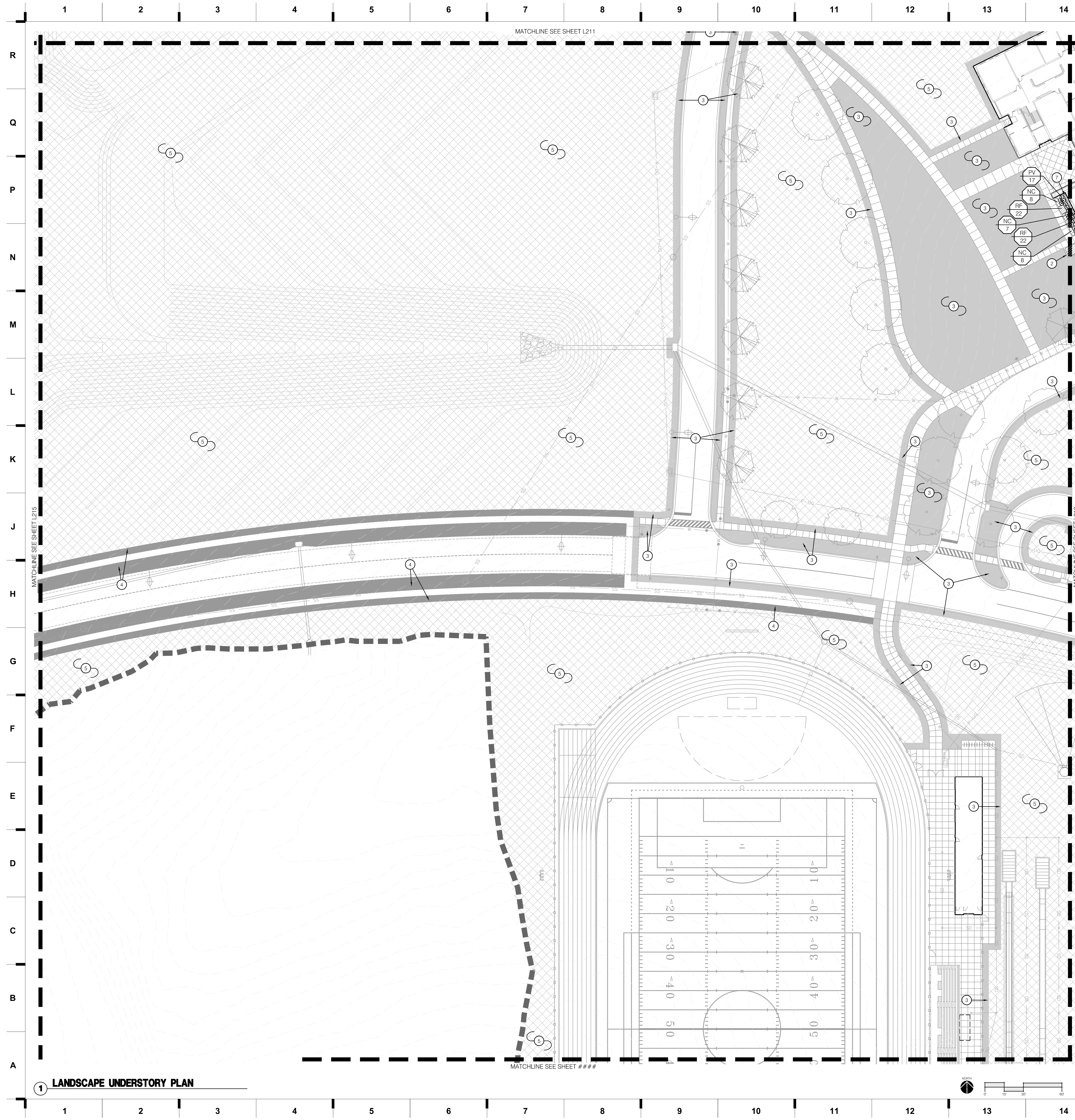


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LANDSCAPE UNDERSTORY LEGEND:

- LIMITS OF CONSTRUCTION
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- - - SHEET MATCHLINE
- (T) EXISTING TREE
- (T) EXISTING TREE CANOPY
- (T) OVERSTORY TREE
- (T) ORNAMENTAL TREE
- (T) EVERGREEN TREE
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- [Pattern] ALTERNATE TURF TYPE FESCUE SOD
- [Pattern] TURF TYPE FESCUE SEED
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UNDERSTORY PLANT SCHEDULE

DECIDUOUS SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	
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PO	PHYSOCARPUS OPULIFOLIUS 'DONNA MAY' TM	LITTLE DEVIL NINEBARK	5 GAL	CONT.	
PB	PHYSOCARPUS OPULIFOLIUS 'MONLO' TM	DIABOLO NINEBARK	5 GAL	CONT.	
RA	RHUS AROMATICA 'SPOCLOW'	SPOCLOW FRAGRANT SUMAC	5 GAL	CONT.	
SI	SPREAER JAPONICA 'GOLDMOUND'	GOLDMOUND JAPANESE SPIREA	5 GAL	CONT.	
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MM	MISCANTHUS SINENSIS 'MORNING LIGHT'	MORNING LIGHT EULALIA GRASS	3 GAL	CONT.	
PV	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	3 GAL	CONT.	
SH	SPOCLOBOLUS HETEROLEPIS	PIRAINE DROPSEED	3 GAL	CONT.	
PERENNIALS	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING
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LS	LIRIOPE SPICATA	CREEPING LILYTURF	1 GAL	CONT.	18" o.c.
NC	NEPETA X CATS PAJAMAS'	CATS PAJAMAS CATMINT	1 GAL	CONT.	18" o.c.
RF	RUBRO-COCCINEA SULLIVANTII 'LITTLE GOLDSTAR'	LITTLE GOLDSTAR CORNERFLOWER	1 GAL	CONT.	18" o.c.
SC	SALVIA NEMOROSA 'CARDONNA'	CARDONNA MEADOW SAGE	1 GAL	CONT.	18" o.c.

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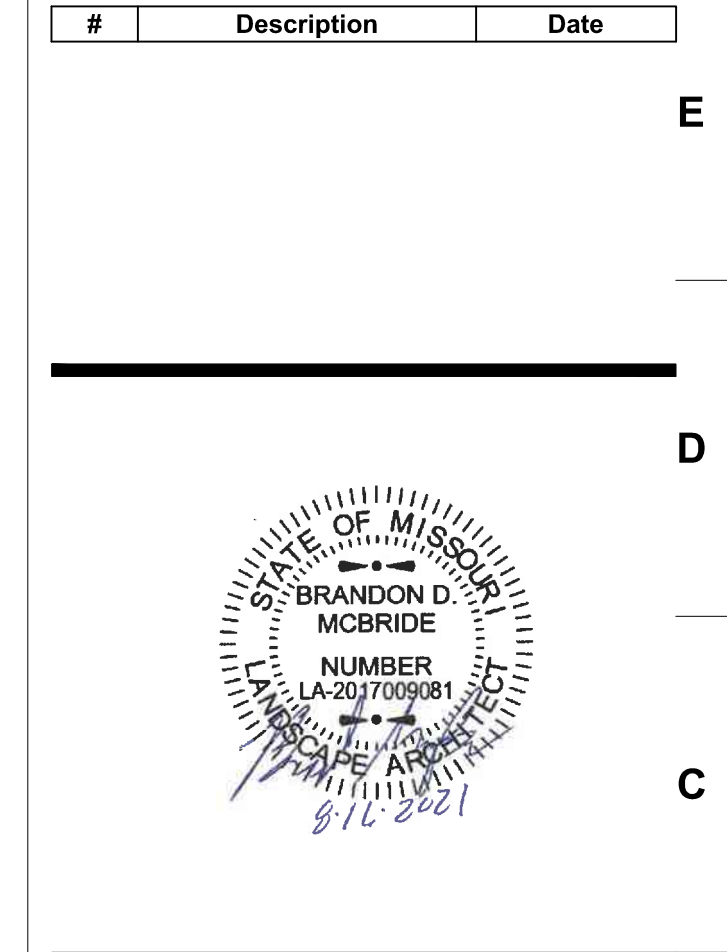
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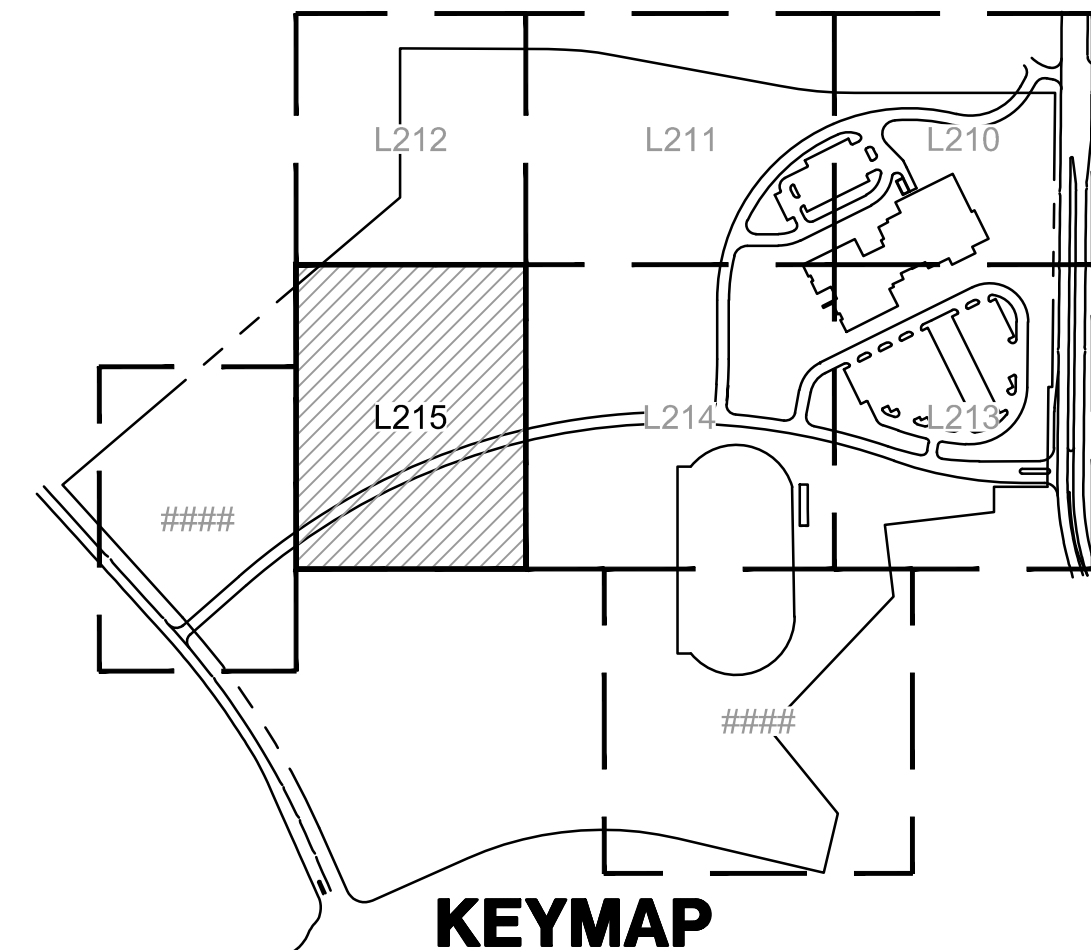
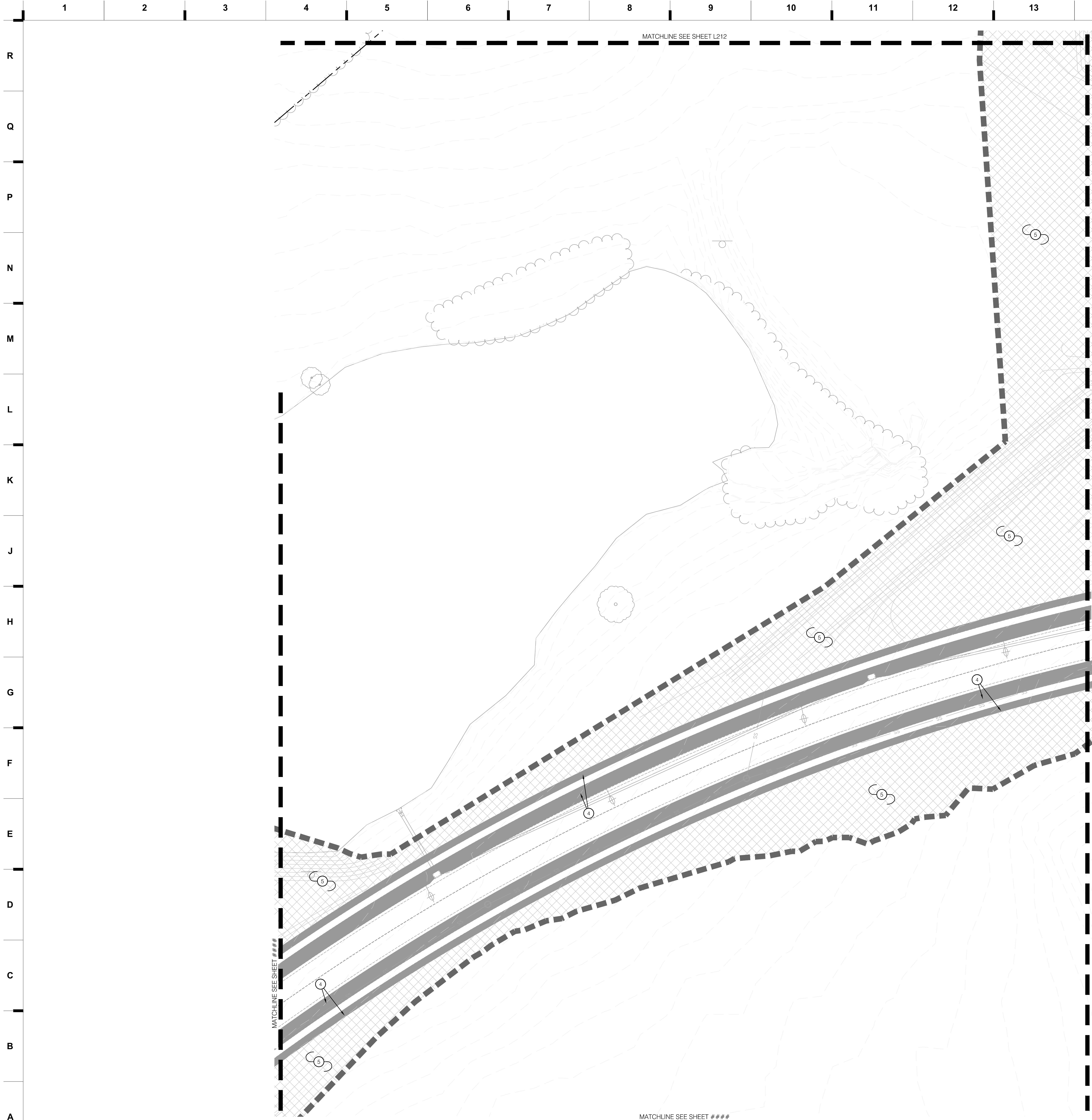


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LANDSCAPE UNDERSTORY LEGEND:

- LIMITS OF CONSTRUCTION
- - - RIGHT OF WAY / PROPERTY LINE
- - - SHEET MATCHLINE
- (o) EXISTING TREE
- (o) EXISTING TREE CANOPY
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UNDERSTORY PLANT SCHEDULE

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PB	PHYSOCARPUS OPULIFOLIUS 'MONLO' TM	DIABLO NINEBARK	5 GAL	CONT.	
PA	RHUS AROMATICA 'SICALOW'	SICALOW FRAGRANT SUMAC	5 GAL	CONT.	
SI	SPREAIA JAPONICA 'GOLDMOUND'	GOLDMOUND JAPANESE SPIREA	5 GAL	CONT.	
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NC	NEPETA X CATS PAJAMAS'	CAT'S PAJAMAS CATMINT	1 GAL	CONT.	18" o.c.
PF	RUBRO-COIA FLUIDICA 'SILVERWANTY'	LITTLE GOLDSTAR CORNFLOWER	1 GAL	CONT.	14" o.c.
SC	SALVIA NEMOROSA 'CARDONNA'	CARDONNA MEADOW SAGE	1 GAL	CONT.	18" o.c.

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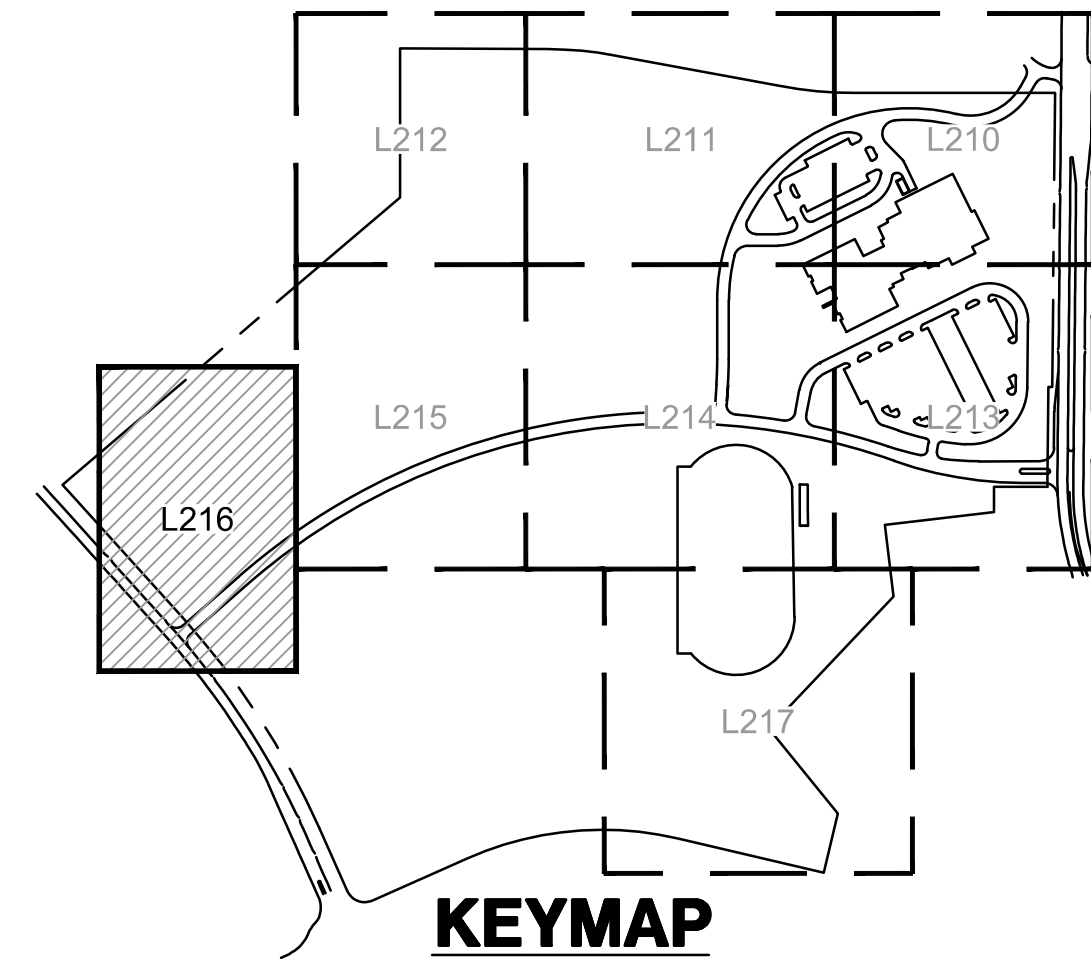
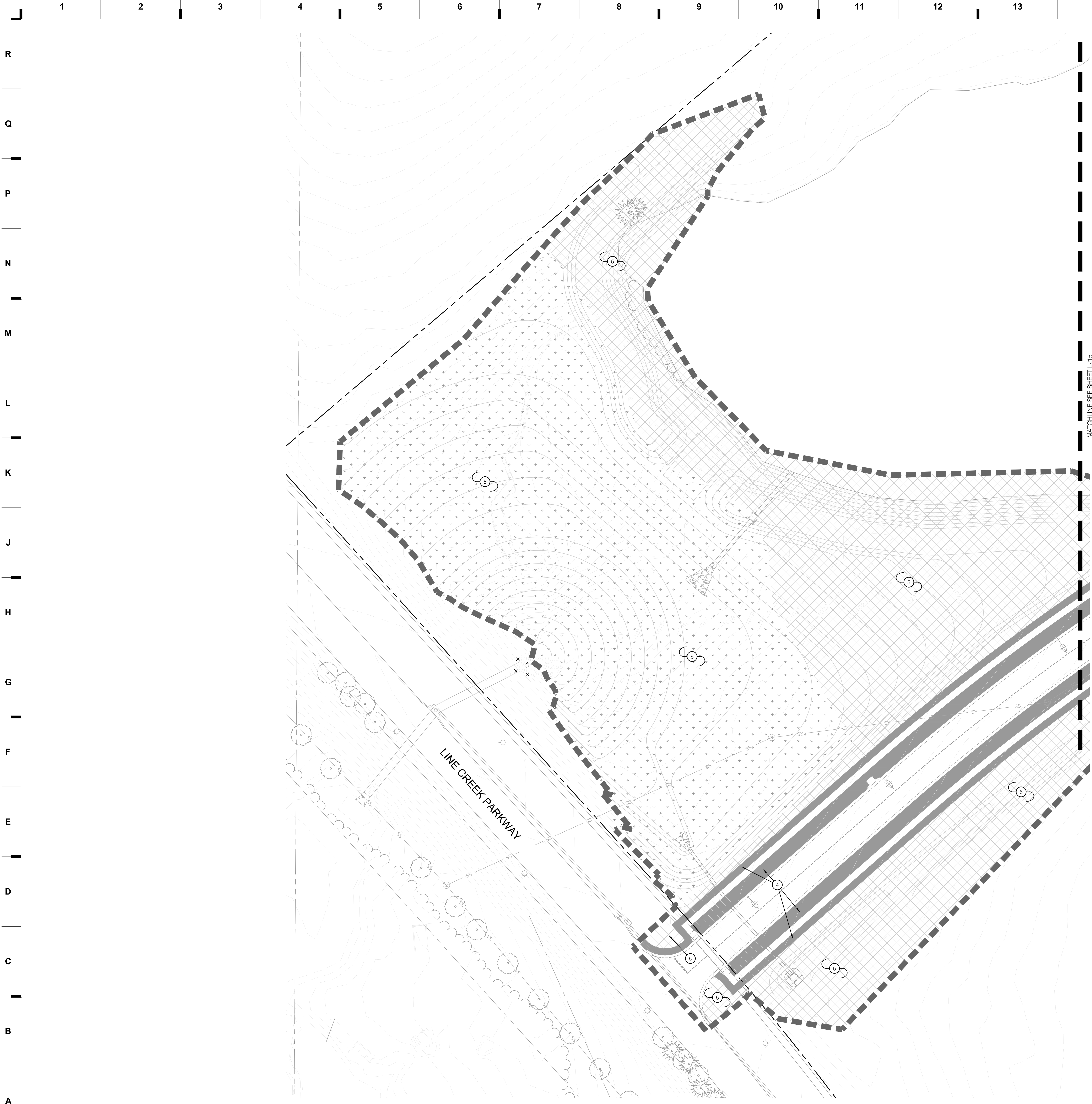
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UNDERSTORY PLANT SCHEDULE

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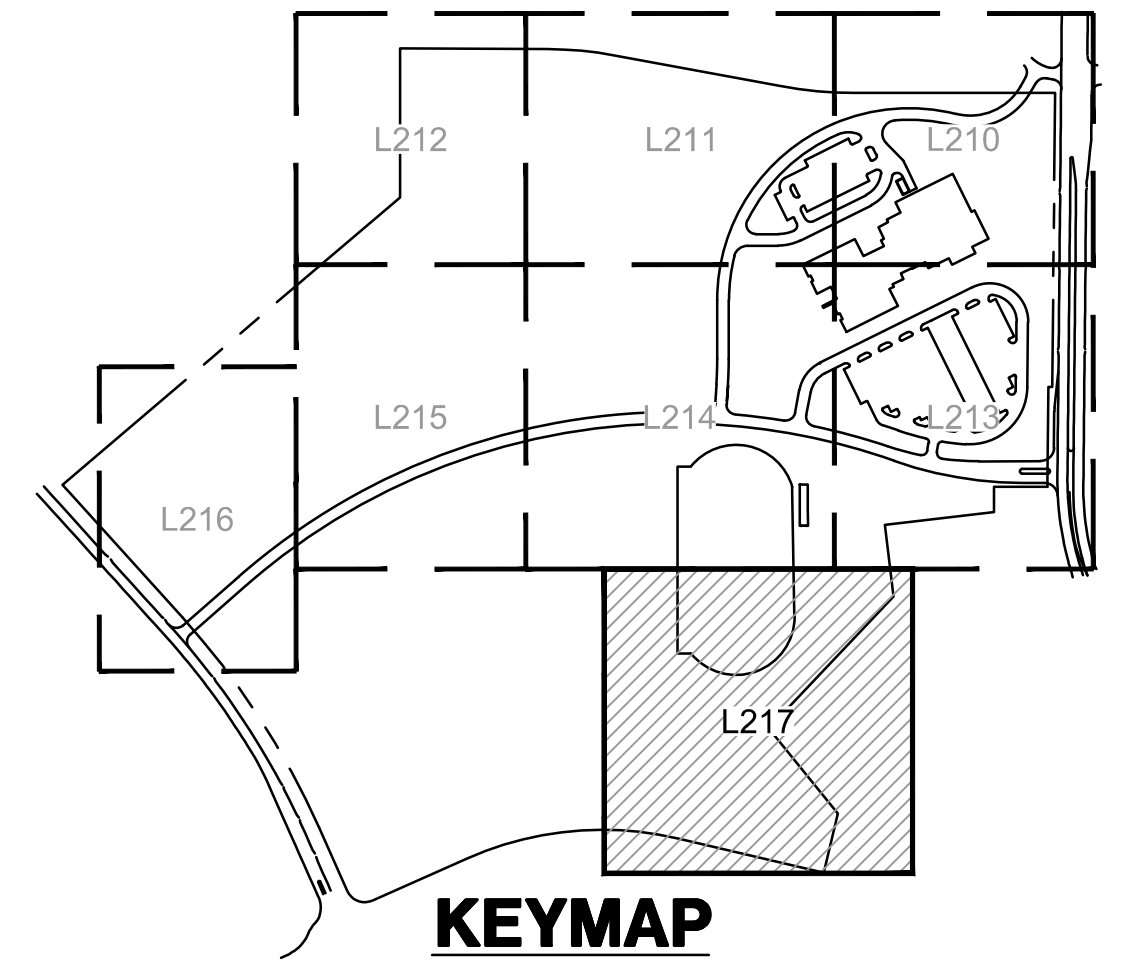
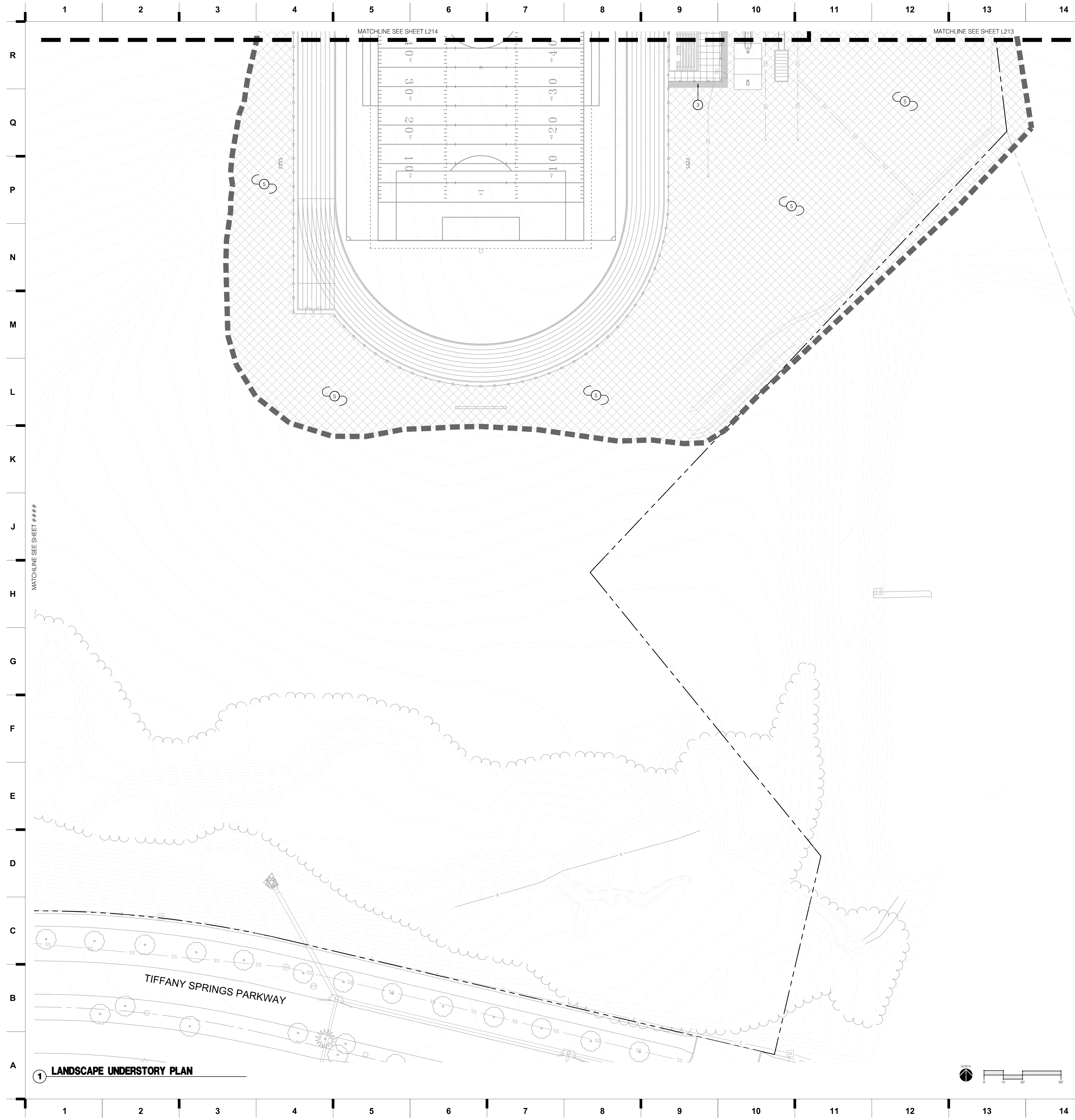
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NUMBER LA-2017099081
9/16/2021

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LANDSCAPE UNDERSTORY LEGEND:

- LIMITS OF CONSTRUCTION
- RIGHT OF WAY / PROPERTY LINE
- SHEET MATCHLINE
- EXISTING TREE
- EXISTING TREE CANOPY
- OVERSTORY TREE
- ORNAMENTAL TREE
- EVERGREEN TREE
- TURF TYPE FESCUE SOD
- ALTERNATE TURF TYPE FESCUE SOD
- TURF TYPE FESCUE SEED
- NATIVE GRASS SEED MIX

LANDSCAPE UNDERSTORY PLAN NOTES:

- 1 PLANTING BED WITH HARDWOOD MULCH; REF: LANDSCAPE GENERAL NOTES, LANDSCAPE DETAILS, & SPECIFICATIONS
- 2 INSTALL STEEL BED EDGE; REF: 5/L290
- 3 AREA TO BE SODDED WITH TURF TYPE FESCUE SOD; REF: SPECIFICATIONS
- 4 ALTERNATE AREA TO BE SODDED WITH TURF TYPE FESCUE SOD; REF: SPECIFICATIONS
- 5 AREA TO BE SEEDED WITH TURF TYPE FESCUE SEED; REF: SPECIFICATIONS
- 6 AREA TO BE SEEDED WITH NATIVE SEED MIX; REF: SPECIFICATIONS
- 7 INSTALL RIVER ROCK; REF: SPECIFICATIONS

UNDERSTORY PLANT SCHEDULE

DECIDUOUS SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	
TV	ITEA VIRGINICA 'LITTLE HENRY'	LITTLE HENRY SWEETSPIRE	5 GAL	CONT.	
PD	PHYSCOCARPUS OPULIFOLIUS 'DONNA MAY TM'	LITTLE DEVIL NINEBARK	5 GAL	CONT.	
PB	PHYSCOCARPUS OPULIFOLIUS 'MONLO' TM	DIABOLO NINEBARK	5 GAL	CONT.	
RA	RHUS AROMATICA 'GRO-LOW'	GRO-LOW FRAGRANT SUMAC	5 GAL	CONT.	
SJ	SPRAEA JAPONICA 'GOLDMOUND'	GOLDMOUND JAPANESE SPREA	5 GAL	CONT.	
EVERGREEN SHRUBS	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	
CP	CHAMAECYPARIS PISIFERA 'GOLDEN MOP'	GOLDEN MOP THREADLEAF SAWARA CYPRESS	5 GAL	CONT.	
JS	JUNIPERUS X PFTIZERIANA 'SEA GREEN'	SEA GREEN PFTIZER JUNIPER	5 GAL	CONT.	
ORNAMENTAL GRASSES	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	
TK	CALAMAGROSTIS X ACUTIFLORA 'KARL FOERSTER'	KARL FOERSTER FEATHER REED GRASS	3 GAL	CONT.	
MM	MISCANTHUS SPENSIS 'MORNING LIGHT'	MORNING LIGHT LULALIA GRASS	3 GAL	CONT.	
PV	PANICUM VIRGATUM 'SHENANDOAH'	SHENANDOAH SWITCH GRASS	3 GAL	CONT.	
SH	SPOROBOLUS HETEROLEPIS	PRAIRIE DROPSEED	3 GAL	CONT.	
PERENNIALS	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION	SPACING
PIE	HEMEROCALLIS X PARDON ME'	PARDON ME DANIELLY	1 GAL	CONT.	24" o.c.
LS	URIGOE SPICATA	CREEPING LILYTURF	1 GAL	CONT.	18" o.c.
NC	NEPETA X CATS PAJAMAS'	CATS PAJAMAS CATMINT	1 GAL	CONT.	18" o.c.
RF	RUDBECKIA FULGIDA SULLIVANTII	LITTLE GOLDSTAR CONEFLOWER	1 GAL	CONT.	14" o.c.
SC	SALVIA NEMOROSA 'CARDONNA'	CARDONNA MEADOW SAGE	1 GAL	CONT.	18" o.c.

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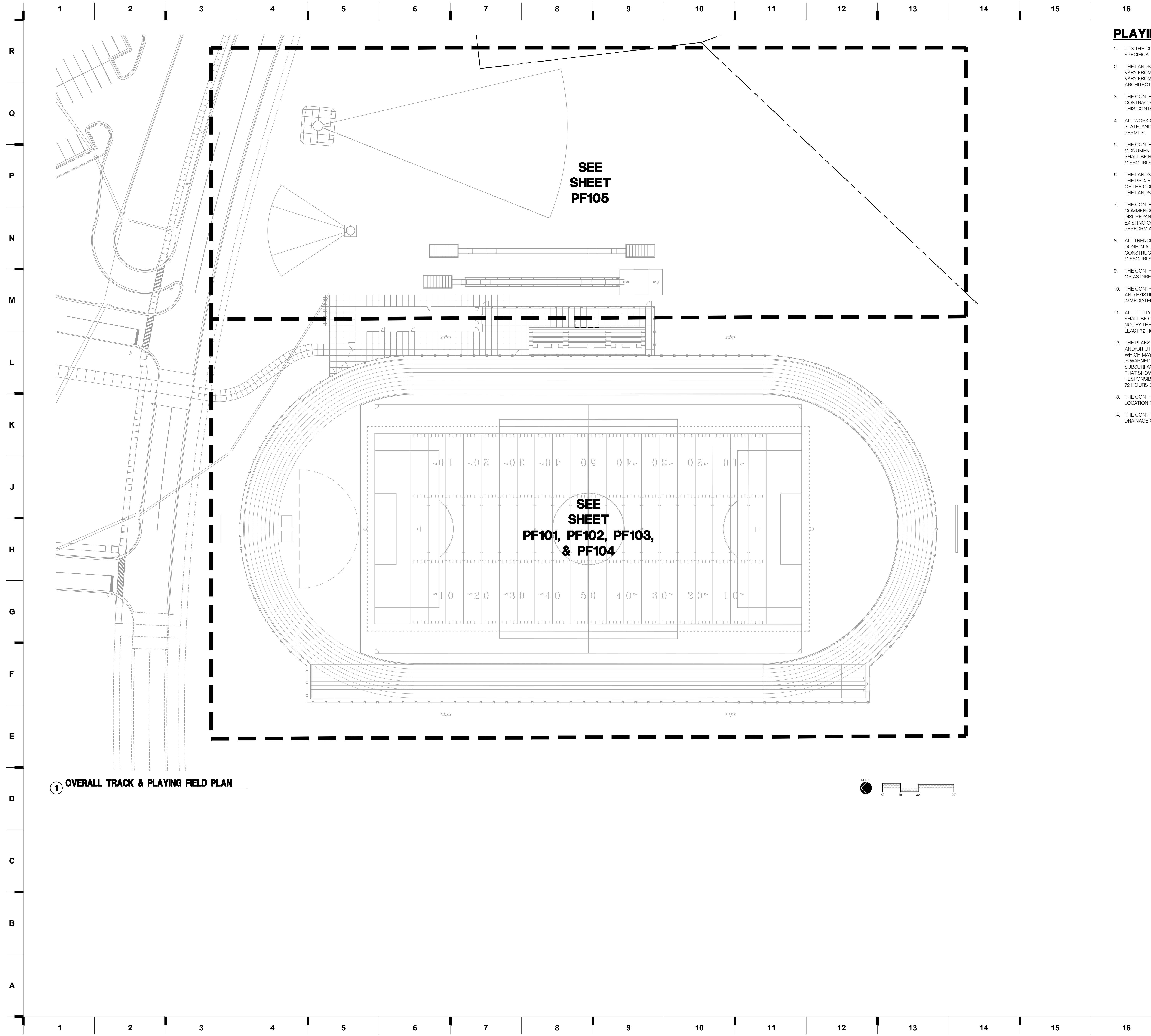
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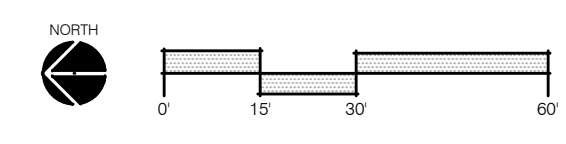
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1 OVERALL TRACK & PLAYING FIELD PLAN



PLAYING FIELD GENERAL NOTES:

- IT IS THE CONTRACTOR'S RESPONSIBILITY TO EXAMINE ALL PLAN SHEETS AND SPECIFICATIONS, AND COORDINATE ALL WORK AS REQUIRED.
- THE LANDSCAPE ARCHITECT SHALL BE NOTIFIED IN WRITING OF ANY CONDITIONS THAT VARY FROM THOSE SHOWN ON THE PLANS. THE CONTRACTOR'S WORK SHALL NOT VARY FROM THE PLANS WITHOUT THE EXPRESSED, WRITTEN APPROVAL OF LANDSCAPE ARCHITECT.
- THE CONTRACTOR IS INSTRUCTED TO COOPERATE WITH ANY AND ALL OTHER CONTRACTORS PERFORMING WORK ON THIS JOB SITE DURING THE PERFORMANCE OF THIS CONTRACT.
- ALL WORK SHALL BE DONE IN STRICT COMPLIANCE WITH ALL APPLICABLE NATIONAL, STATE, AND LOCAL CODES, STANDARDS, ORDINANCES, RULES, REGULATIONS, AND PERMITS.
- THE CONTRACTOR SHALL PROTECT THE EXISTING PROPERTY LINE MONUMENTS. ANY MONUMENTS DISTURBED OR DESTROYED, AS JUDGED BY THE LANDSCAPE ARCHITECT, SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE UNDER THE SUPERVISION OF AN MISSOURI STATE LICENSED LAND SURVEYOR.
- THE LANDSCAPE ARCHITECT RESERVES THE RIGHT TO EXAMINE ANY WORK DONE ON THE PROJECT ANYTIME TO DETERMINE THE CONFORMANCE WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS OF THIS PROJECT, AS INTENDED AND INTERPRETED BY THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD PRIOR TO COMMENCEMENT OF WORK AND NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES. EXAMINE THE SITE AND INCLUDE IN HIS WORK THE EFFECT OF ALL EXISTING CONDITIONS ON THE WORK. PROVIDE AND INSTALL ALL MATERIALS AND PERFORM ALL WORK IN ACCORDANCE WITH RECOGNIZED GOOD STANDARD PRACTICE.
- ALL TRENCH EXCAVATION AND ANY REQUIRED SHEETING AND SHORING SHALL BE DONE IN ACCORDANCE WITH THE LATEST REVISIONS OF OSHA REGULATIONS FOR CONSTRUCTION SHEET PILING. SHEET PILING SHALL BE DESIGNED AND SEALED BY AN MISSOURI STATE PROFESSIONAL ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO THE PROPERTY WHENEVER POSSIBLE OR AS DIRECTED BY THE LANDSCAPE ARCHITECT.
- THE CONTRACTOR SHALL TAKE CARE TO PREVENT DAMAGE TO PREVIOUSLY INSTALLED AND EXISTING UTILITIES AND WORK. DAMAGED UTILITIES OR WORK SHALL BE IMMEDIATELY REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- ALL UTILITY WORK INVOLVING CONNECTIONS TO PREVIOUSLY INSTALLED SYSTEMS SHALL BE COORDINATED WITH THE LANDSCAPE ARCHITECT AND UTILITY OWNER. NOTIFY THE OWNER AND LANDSCAPE ARCHITECT AT EIGHT WEEKS AND AGAIN AT THE LEAST 72 HOURS BEFORE YOU DIG OR DRILL. CALL MO 811.
- THE PLANS SHOWS SUB-SURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES FROM FIELD LOCATION AND RECORD MAPPING. EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THAT AREA MAY BE DIFFERENT FROM THAT SHOWN OR MAY NOT BE SHOWN. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. AT LEAST 72 HOURS BEFORE YOU DIG OR DRILL, CALL MO 811.
- THE CONTRACTOR SHALL LOCATE ACTUAL IRRIGATION WATER VALVE SOURCE LOCATION TO FIELD PRIOR TO REMOVAL OF ANY EXISTING IRRIGATION MATERIALS.
- THE CONTRACTOR SHALL LOCATE THE ACTUAL NW LOCATION OF THE STORM DRAINAGE OUTLET PRIOR TO REMOVING ANY STORM MATERIALS.

SEE SHEET PF105

SEE SHEET PF101, PF102, PF103, & PF104

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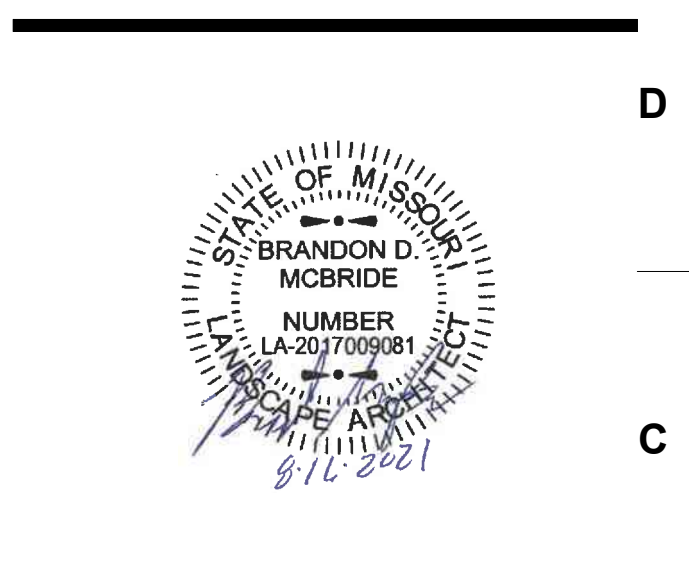
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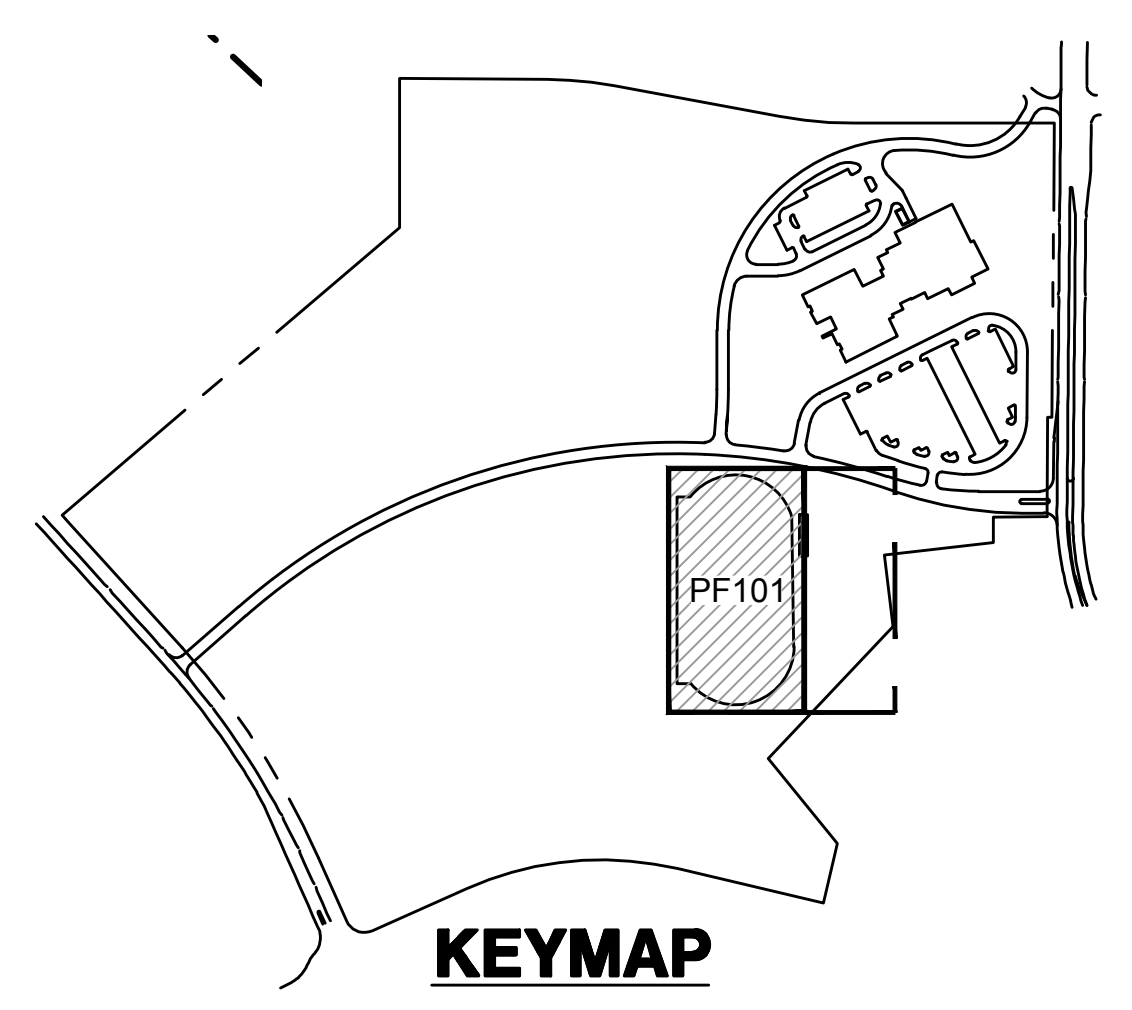
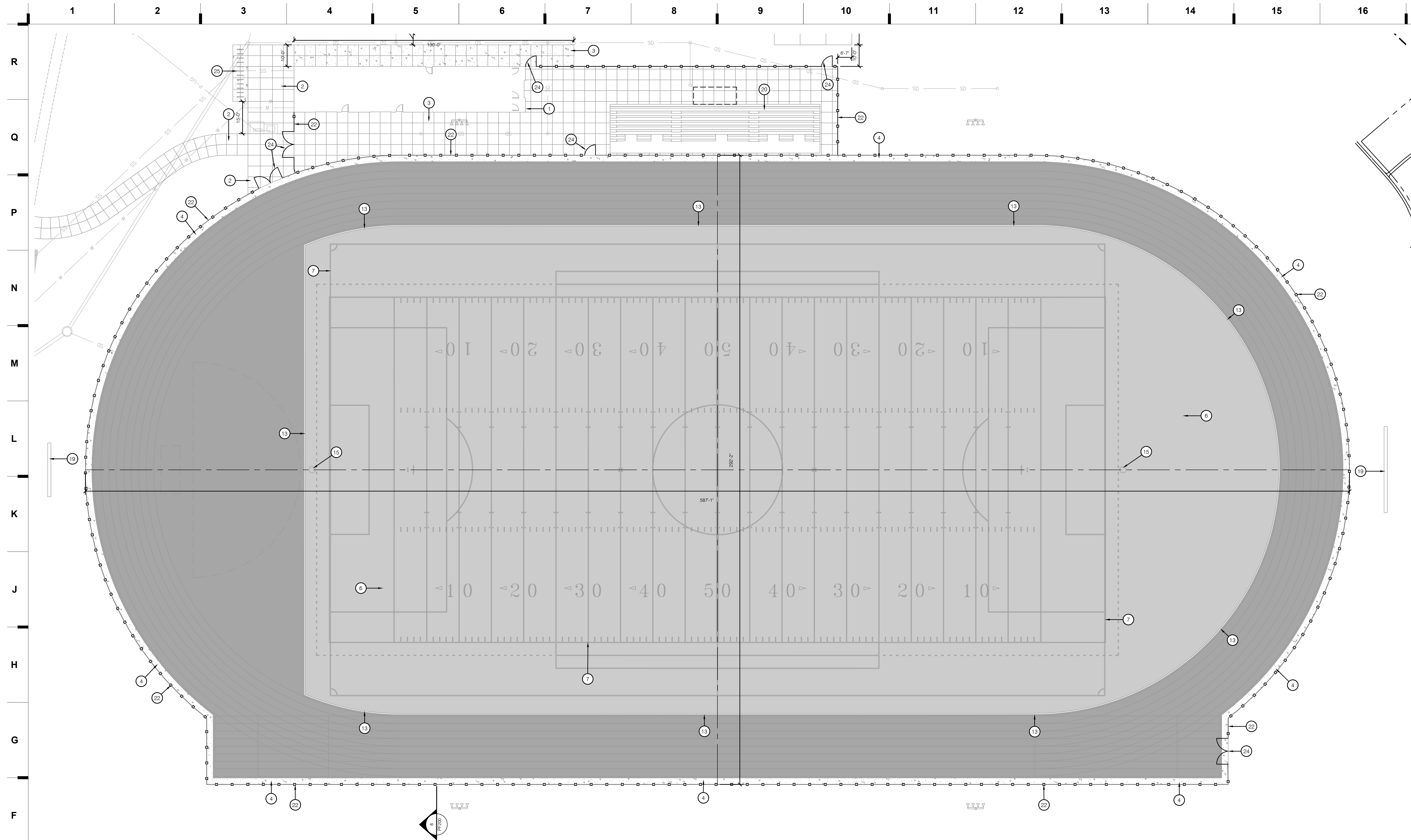


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PF100







1 PLAYING FIELD LAYOUT PLAN

GENERAL NOTES:

1. VERIFY ALL SITE CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF WORK. NOTIFY OWNER AND ITS REPRESENTATIVES OF ANY DISCREPANCIES OR IRREGULAR CONDITIONS.
2. CONTRACTOR/VENDOR INCLUDE SHOP DRAWINGS SHOWING LAYOUT OF SEAMS, LINE MARKINGS FOR SOCCER AND FOOTBALL, CONNECTION OF TURF @ FIELD PERIMETER, AND TURF AND PANELS AS NOTED IN THE SPECIFICATIONS.
3. CONTRACTOR TO REFERENCE PLAYING FIELD UTILITY DRAWING AND ELECTRICAL PLAN FOR LOCATION OF QUICK COUPLERS, CONDUITS, COMBOX AND VAULT BOXES, ADJACENT TO OR WITHIN PLAYING FIELD AREA.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT. THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED UP RECORD PLANS FOR ALL UTILITIES INSTALLED OR ENCOUNTERED PER SPECIFICATIONS.
5. DIMENSIONS ARE TO THE INSIDE OF THE FIELD MARKING LINES FOR FOOTBALL AND OUTSIDE OF FIELD MARKING LINES FOR SOCCER EXCEPT FOR THE CENTERLINES.
6. ALL LINES AND MARKINGS IN SYNTHETIC TURF TO BE A PERMANENT INSTALLATION EITHER TUFTED OR INLAID LINES OR AS OTHERWISE NOTED.
7. FIELD DIMENSIONS ARE SYMMETRICAL ABOUT CENTERLINE UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL PROVIDE SMOOTH TRANSITIONS BETWEEN NEW WORK AND EXISTING CONDITIONS.
9. REFER TO SPECIFICATIONS FOR TRACK AND FIELD MARKINGS. CONTRACTOR TO SUBMIT MARKING PLAN FOR APPROVAL.
10. WORK ITEMS ON TF SERIES DRAWINGS SHALL BE FOR CONCRETE APRON AND FENCE AND INTO TRACK AND FIELD AREA. ALL SITE AREA OUTSIDE OF APRON/ FENCE SHALL REFER TO CIVIL AND LANDSCAPE PLANS.

PLAN LEGEND:

-  SYNTHETIC TURF; REF: 1/TF-5.0
96,600 SF
-  FULL DEPTH TRACK SECTION; REF: 3/TF-5.0
53,130.00 SF
-  SAND PIT; REF: SPECIFICATIONS & 5/TF-5.1
PIT COVER; REF: SPECIFICATIONS
XXX SF
-  CONCRETE APRON; REF: 3 & 4/TF-5.1
4,670 SF

LAYOUT PLAN NOTES:

- 1 FIELD HOUSE; REF: ARCHITECTURAL PLANS
- 2 HEAVY DUTY CONCRETE PAVEMENT; REF: CIVIL PLANS
- 3 CONCRETE SIDEWALK; REF: 1/L190
- 4 CONCRETE APRON; REF: XXXX
- 5 CONCRETE CURB; REF: XXXX
- 6 SYNTHETIC TURF; REF: 2/PF200
- 7 PERMANENT PLAYING FIELD LINE MARKING. ALL FIELD MARKINGS AND LAYOUT OF FIELD PER TURF MANUFACTURER. SYNTHETIC TURF AND INFILL.
- 8 SAND PIT AND LONG JUMP; REF: 10/PF200
- 9 LONG JUMP/ TRIPLE TAKE OFF BOARD; REF: 12/PF200
- 10 LONG / TRIPLE JUMP FRAME AND COVER; REF: SPECIFICATIONS
- 11 HIGH JUMP MARKING FOR REFERENCE ONLY. NOT TO BE PAINTED.
- 12 DISCUS THROW AREA LAYOUT; REF: XX/XX
- 13 SHOT PUT THROW AREA LAYOUT; REF: 5/PF201
- 14 POLE VAULT RUNWAY AND LANDING PAD; REF: XXXX
- 15 GOAL POST; REF: SPECIFICATIONS & 11/PF200
- 16 PLAY CLOCK; REF: XXXX
- 17 RADIUS MONUMENT; REF: 4/PF201
- 18 BRASS RADIUS MONUMENT ON CURB; REF: SPECIFICATIONS & XX/XX
- 19 SCOREBOARD; REF: ELECTRICAL PLANS AND ARCHITECTURAL PLANS
- 20 GRANDSTAND; REF: ARCHITECTURAL PLANS
- 21 GRAVEL WITH GEOTEXTILE FABRIC UNDER GRANDSTAND; REF: CIVIL PLANS
- 22 72" HEIGHT CHAIN LINK FENCE; REF: 1/PF201
- 23 72" HEIGHT X 12'-0" WIDE DOUBLE SWING GATE; REF: 2/PF201
- 24 72" HEIGHT BY 5'-0" WIDE CHAIN LINK SINGLE SWING GATE; REF: 3/PF201
- 25 BIKE RACK; REF: HARDSCAPE PLANS

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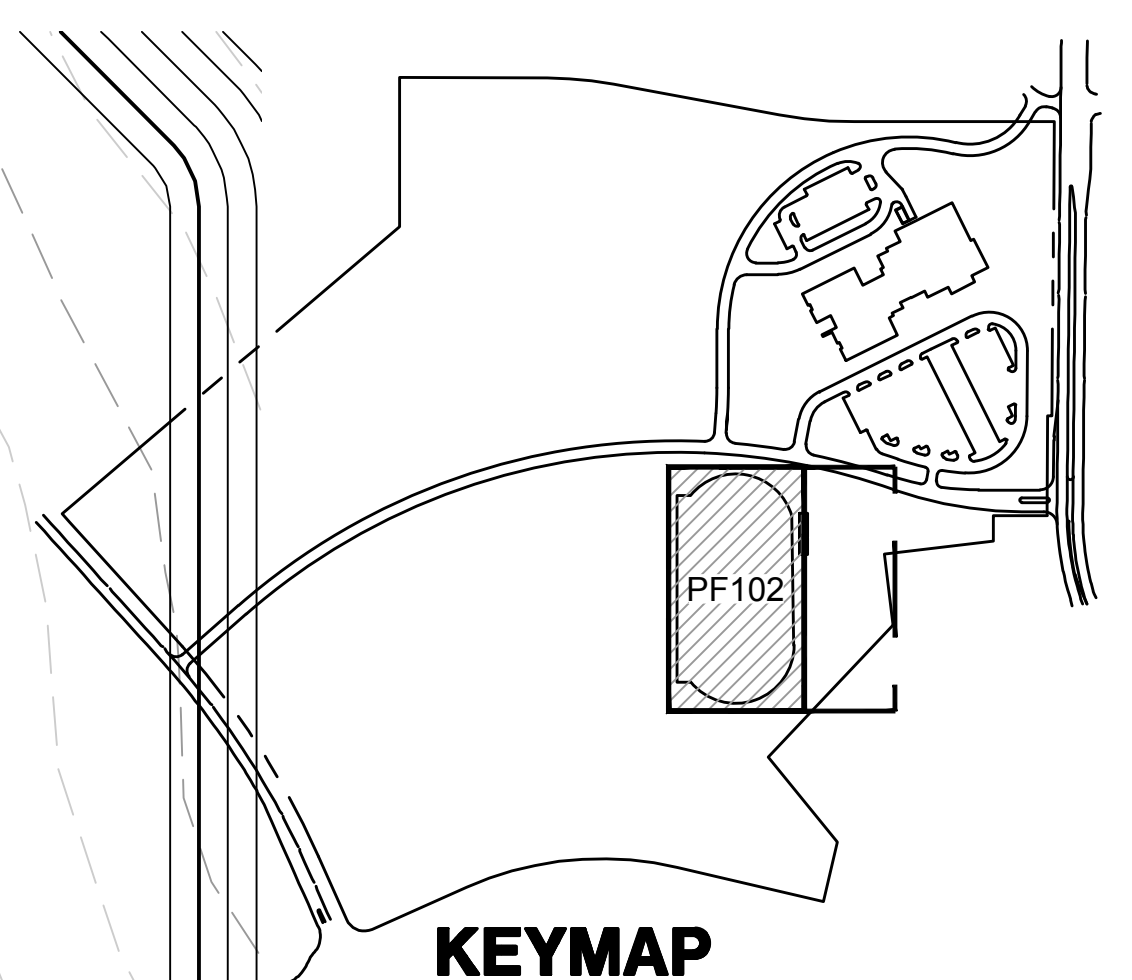
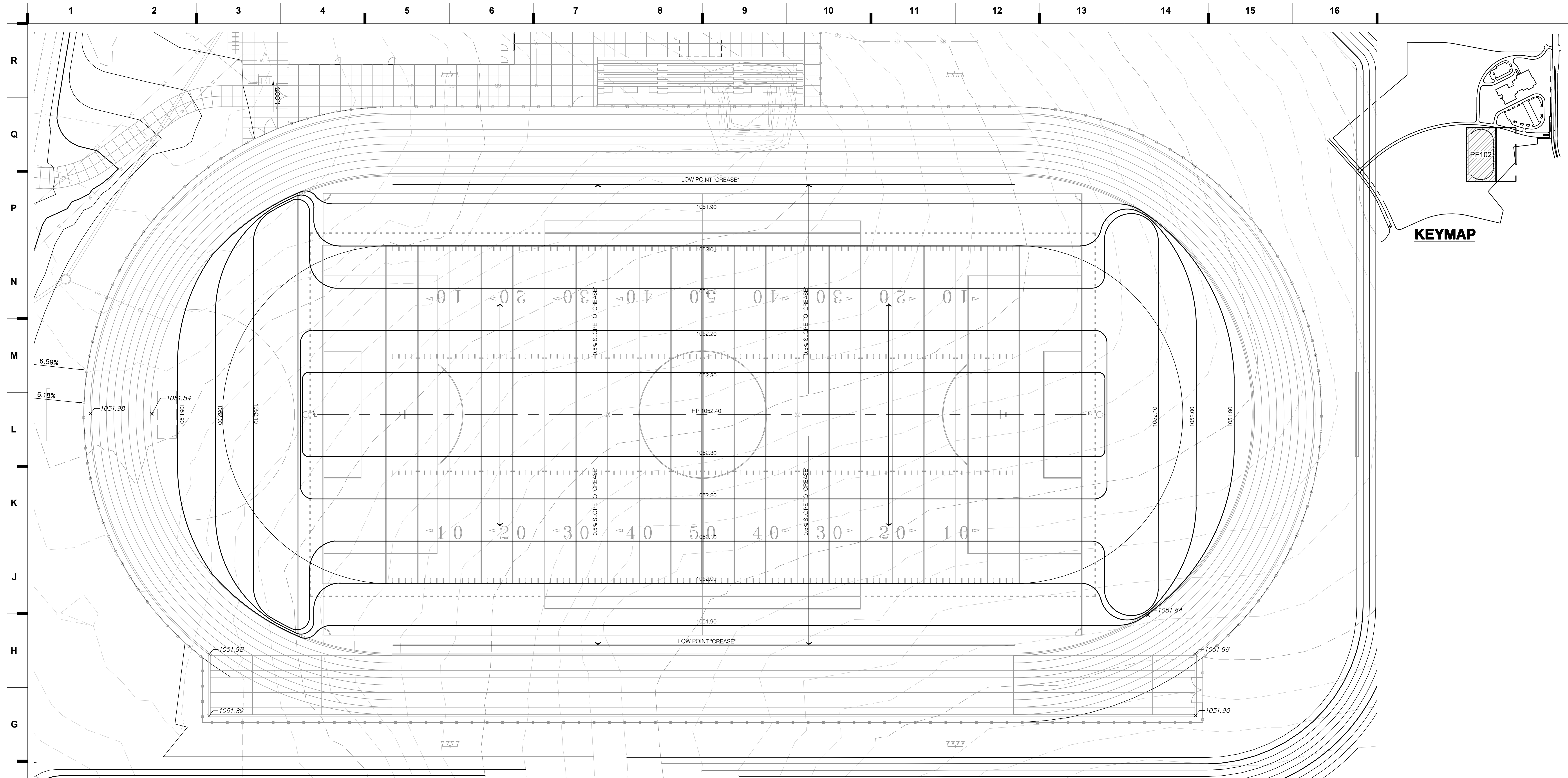
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1 PLAYING FIELD GRADING PLAN

GENERAL NOTES:

- PRIOR TO THE START OF CONSTRUCTION PLAYING FIELD CONTRACTOR IS TO COORDINATE THE PROTECTION OF DRAINAGE STRUCTURES AND DRAINAGE WAYS WITHIN AND IMMEDIATELY AROUND THE PLAYING FIELD PROJECT AREA.
- FINISH GRADES TO MIRROR THAT OF THE FINISH SUBGRADE.
- FINISH GRADES TO BE 0.50% SLOPE ON THE FIELD.
- FINISH GRADES AND SPOT ELEVATIONS REPRESENT ELEVATIONS AFTER FIELD IS COMPLETED PER SPECIFICATIONS
- THE PROPOSED CONTOUR INTERVAL ON THE PLAYING FIELDS IS ONE-TENTH FOOT. ALL CERTIFIED VERIFICATION ELEVATION SUBMITTALS BY THE CONTRACTOR FOR THE PLAYING FIELDS SHALL ALSO BE SHOWN AT ONE-TENTH FOOT CONTOURS AT A 25' GRID.
- PROPOSED GRADES SHALL BLEND SMOOTHLY WITH ADJACENT EXISTING ELEVATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEWATERING AND THE MAINTENANCE OF SURFACE DRAINAGE DURING THE COURSE OF WORK IN THE PLAYING FIELD AREA.
- GRADE FIELD TO A SMOOTH, EVEN PLAYING SURFACE TO THE SPOT ELEVATIONS AND CONTOURS SHOWN USING LASER OPERATING EQUIPMENT.
- FINISH GRADES ARE SYMMETRICAL ABOUT THE FIELD CENTERLINE UNLESS OTHERWISE NOTED.
- EXCESS MATERIAL FROM TRENCHES AND ROUGH SUBGRADE SHALL BE COORDINATED FOR PLACEMENT ON PROJECT SITE.
- PROTECT PREVIOUSLY INSTALLED UTILITIES, DRAINAGE STRUCTURES, AND FENCES FROM DAMAGE DURING FIELD GRADING OPERATIONS.
- LONGITUDINAL CENTERLINE OF SOCCER FIELD FOR FINAL FINISH GRADE SHOULD NOT BE A PRONOUNCED PEAK PRIOR TO GRASS OR SYNTHETIC TURF INSTALLATION. CONTRACTOR TO "ROUND OFF" FINISHED GRADE AT CENTERLINE IMMEDIATELY PRIOR TO GRASS INSTALLATION.
- REFER TO SPECIFICATIONS FOR FURTHER INSTALLATION INFORMATION, CERTIFICATIONS, AND LABORATORY PROTOCOLS.
- REFER TO CIVIL PLANS FOR GRADING OUTSIDE OF TRACK APRON/ FENCE.

LEGEND:

- 954.00 CONTOUR LINE
- 954.00 SPOT ELEVATION

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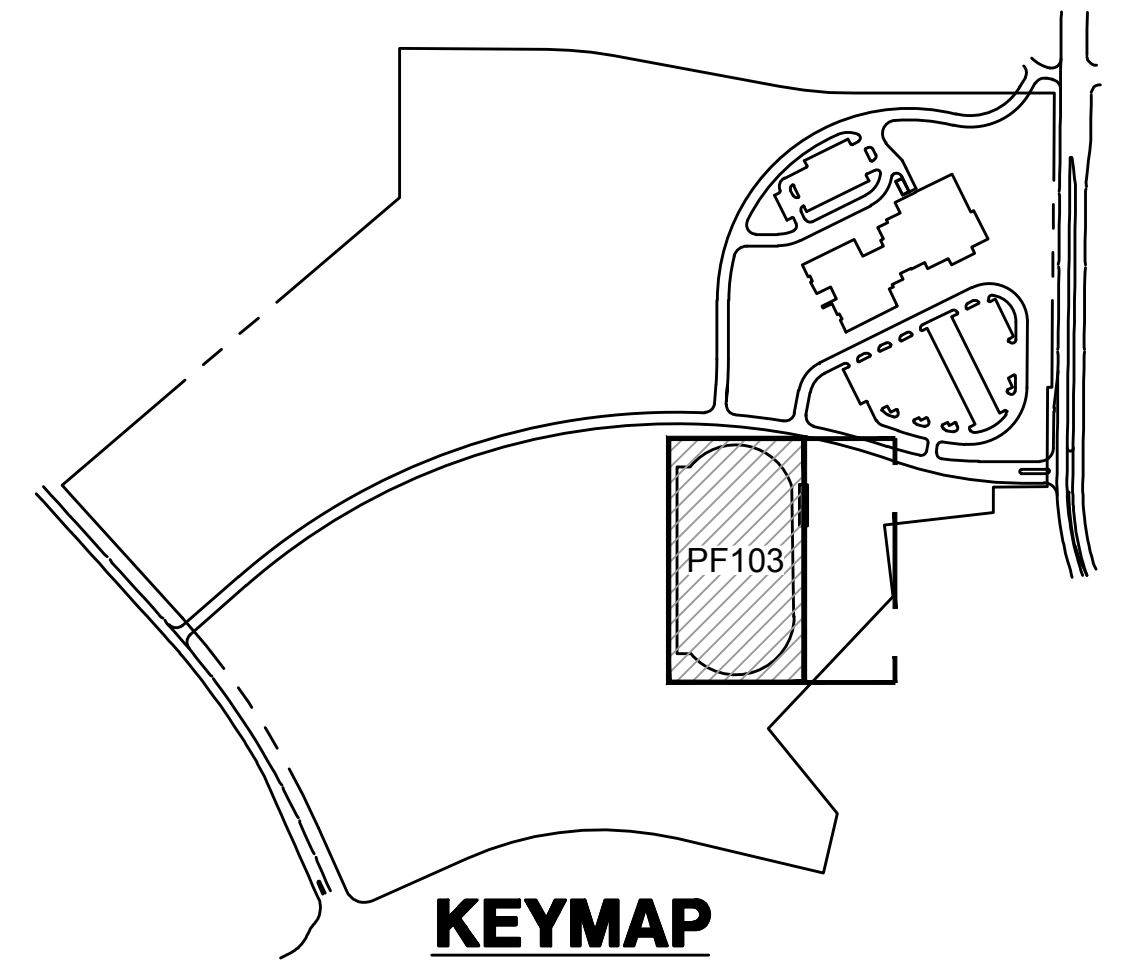
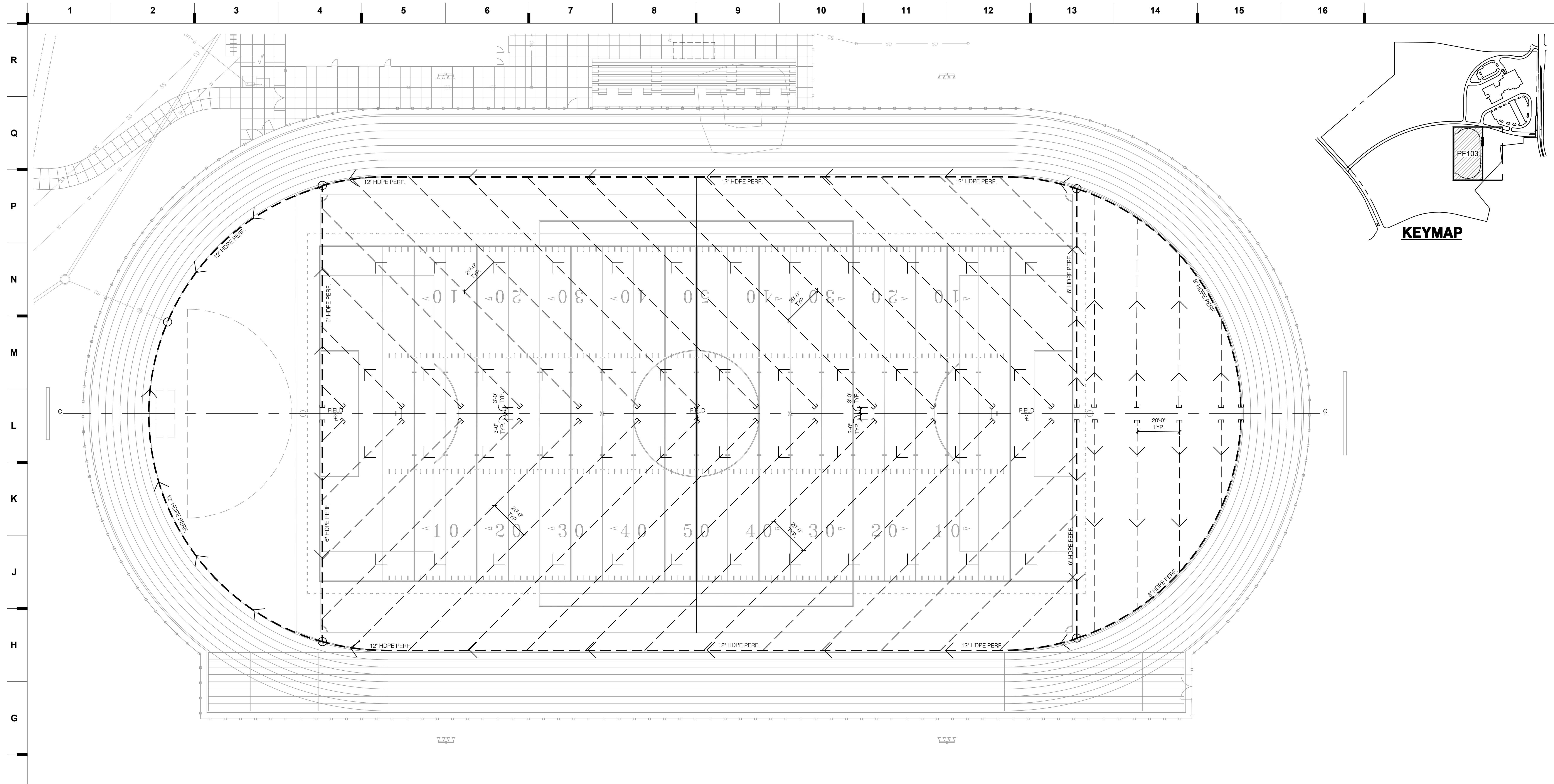
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1 PLAYING FIELD SUB-DRAINAGE PLAN

GENERAL NOTES:

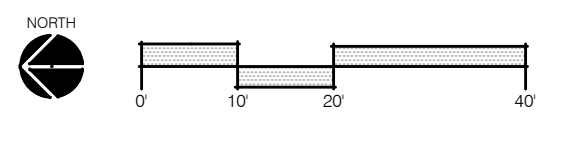
- PERIMETER COLLECTOR PIPE TO BE HDPE, PERFORATED AND SIZED AS SHOWN.
- LATERAL PANEL DRAINS ARE SPACED 20 FEET ON CENTER, EXCEPT WHERE INDICATED.
- CAP ENDS OF ALL PANEL DRAINS. PLACE WASHER/BOLT ON END OF CAP FOR METAL DETECTION.
- FIELD COLLECTOR AND PANEL DRAINS TO SLOPED AS INDICATED.
- GEOTEXTILE FABRIC PLACED AT BOTTOM AND SIDES OF PERIMETER COLLECTOR PIPES. DURING CONSTRUCTION THE FABRIC SHALL BE WRAPPED OVER THE TOP OF THE GRAVEL TRENCH TO AVOID CONTAMINATION OF THE GRAVEL FROM SOIL MATERIALS AND DEBRIS. PRIOR TO PLACING STONE OR ROOTZONE MATERIALS ON TOP OF THESE TRENCHES THE FABRIC SHALL BE UNFOLDED AND PLACED ON SUBGRADE EXPOSING FULLY THE GRAVEL TRENCH. ANY CONTAMINATION FOUND SHALL BE REMEDIED BY REMOVING AND THEN REPLACING WITH APPROVED STONE MATERIAL.
- ALL ELEVATIONS SHOWN ARE INVERT ELEVATIONS UNLESS NOTED OTHERWISE.
- PLAYING FIELD CONTRACTOR TO COORDINATE AND BE AWARE OF SITE STORM PIPING, STORM STRUCTURES, SPORTS LIGHTING ELECTRICAL CONDUITS AND LINES WITHIN THE CONSTRUCTION BOUNDARIES.
- CONTRACTOR TO PROTECT DRAINAGE LINES DURING CONSTRUCTION FROM DEBRIS, INCLUDING SOIL OR GRAVEL AND OTHER TRASH ENTERING OR BLOCKING LINES.
- CONTRACTOR TO AVOID TRAFFIC OVER INSTALLED DRAINAGE TRENCHES AND STRUCTURES TO PREVENT CRUSHING OF PIPE OR DAMAGE TO STRUCTURES.
- PERIMETER COLLECTOR LINE TO BE LOCATED 5 FEET INSIDE FIELD AREA EDGE OF TRACK SURFACE.
- CONTRACTOR SHALL CONTACT THE LANDSCAPE ARCHITECT IMMEDIATELY IF DISCREPANCIES ARE FOUND IN THE FIELD.
- EXCESS SOIL REMOVED DURING INSTALLATION OF TRENCHING OPERATION TO BE COORDINATED WITH OTHER SITE GRADING ACTIVITY AND AS DIRECTED BY OWNER OR OWNERS REPRESENTATIVE.
- REFER TO SPECIFICATIONS FOR FURTHER SUB-DRAINAGE MATERIALS, EQUIPMENT, INSTALLATION INFORMATION, CERTIFICATIONS AND LABORATORY PROTOCOLS.
- LAYOUT OF PANEL DRAINS TO ORIGINATE @ CENTERPOINT OF FIELD.
- ALL UNDERDRAINAGE WITHIN PLAYING FIELD / TRACK IS PART 1 G.I. REFERENCE CIVIL PLANS FOR DETENTION STRUCTURE BELOW FIELD WHICH IS PART 2 G.I.

LEGEND:

- COLLECTOR DRAIN PIPE; REF: 4/PF-S.0
- PANEL DRAIN; REF: 2/TF-S.0
- DRAIN BASIN/CLEANOUT
- LOW POINT
- HIGH POINT

DRAINAGE PLAN NOTES:

- PANEL DRAIN; REF: XXXX
- FULL WIDTH FIELD SECTION; REF: XXXX
- TRENCH DRAIN CATCH BASIN; REF: XXXX
- IN-LINE DRAIN BASIN AT SUBGRADE; REF: XXXX
- SLOTTED TRENCH DRAIN; REF: XXXX
- TAKE OFF BOARDS DRAINAGE; REF: XXXX
- TRENCH DRAIN STARTS AT THIS POINT; REF: XXXX
- STORM DRAINAGE CONNECTION FROM GRANDSTAND; REF: CIVIL PLANS
- STORM LINE; REF: G.I. PART 2



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REVISIONS:

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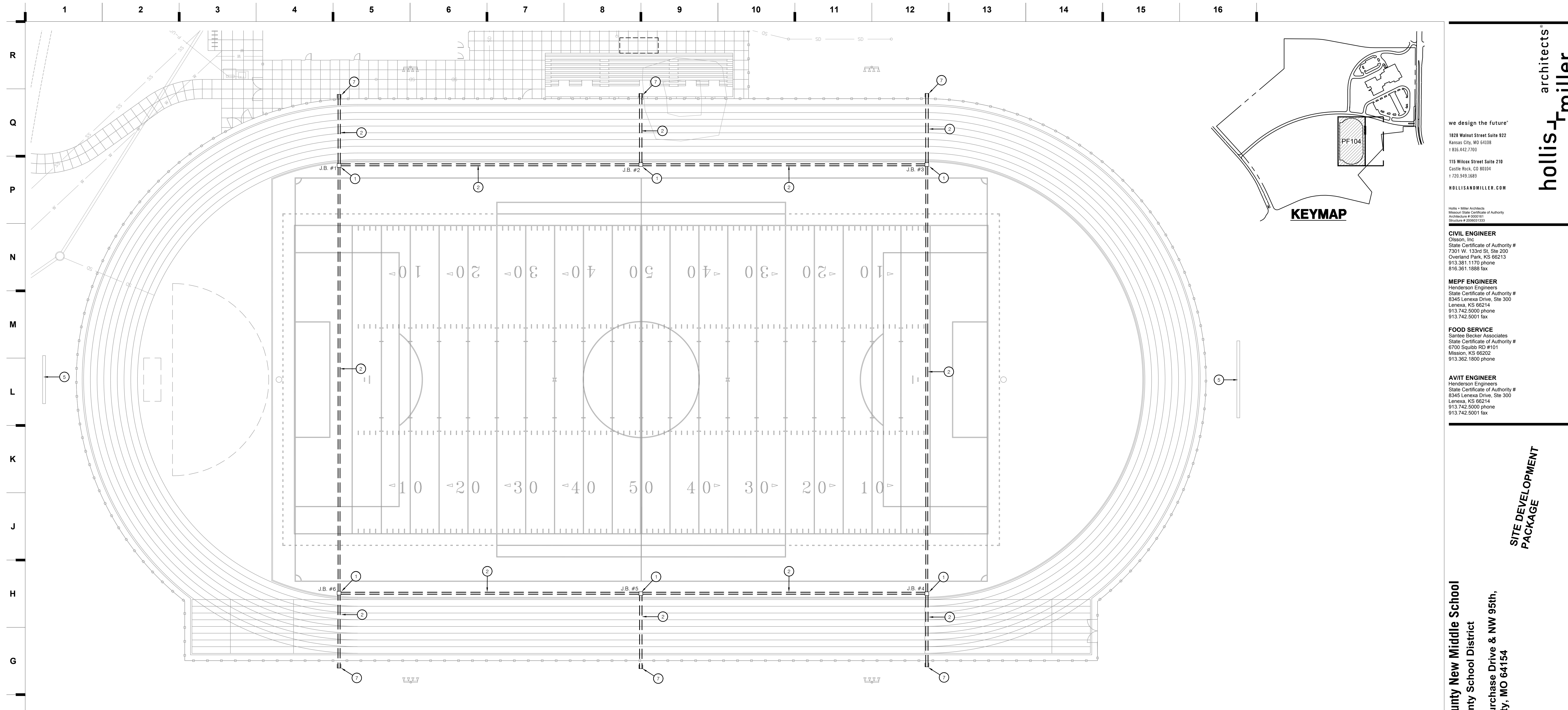
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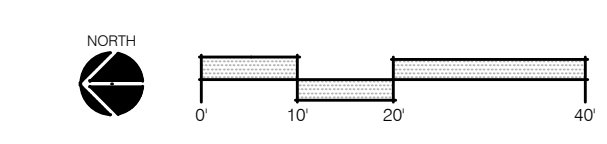
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1 PLAYING FIELD UTILITY PLAN



GENERAL NOTES:

- QUICK COUPLERS ARE TO BE LOCATED AT PERIMETER OF FIELD, IMMEDIATELY ADJACENT TO THE NEW PERIMETER TRACK CURB.
- CONTACT LANDSCAPE ARCHITECT PRIOR TO COMMENCEMENT OF THE WORK FOR REVIEW OF THE WORK PROCESS.
- DESIGN IS DIAGRAMMATIC, ALL PIPING, ETC. IS TO SHOW INTENT AND DESIGN CLARIFICATION. CONTRACTOR TO INSTALL ANY MANNER CONFORMING TO DETAILS IN CONSIDERATION OF OTHER COMPONENTS OF THE PLAYING FIELD SYSTEM.
- EXERCISE EXTREME CARE IN EXCAVATION AND WORKING AROUND EXISTING UTILITIES AND AT THE EDGE OF THE EXISTING TRACK SURFACE. VERIFY LOCATION AND CONDITIONS OF ALL UTILITIES AND BE RESPONSIBLE FOR DAMAGE TO UTILITIES.
- CONNECT WATER LOOP WHERE SHOWN ON THE PLAN TO THE EXISTING WATER SOURCE.
- PROVIDE A 2 INCH DRAIN PIPE IN EACH JUNCTION, VALVE OR IN-GROUND BOX. CONNECT TO PERIMETER STORM COLLECTOR AS SHOWN ON SUB-DRAINAGE PLAN.
- JUNCTION BOXES/ IN-GROUND BOXES REFER TO SPECIFICATIONS FOR TYPE/ SIZE.
- CONDUITS TERMINATING AT AND CONNECTING TO FIELD JUNCTION BOXES ARE FOR FUTURE USE BY THE OWNER. ELECTRICAL AND OR COMMUNICATION WIRING ARE NOT INCLUDED IN THIS CONTRACT.
- EXISTING IRRIGATION AND WATER SYSTEM TO REMAIN. ADJUST LID ELEVATIONS AS NECESSARY FOR NEW FIELD FINISH GRADING.

LEGEND:

- CONDUIT
- J.B. #□ JUNCTION BOX

UTILITY PLAN NOTES:

- INSTALL TURF STYLE JUNCTION BOX; REF: XXXX
- (2) 3" PVC CONDUITS; REF: SPECIFICATIONS
- GAME CLOCK
- INSTALL TO ELECTRICAL PANEL; REF: ELECTRICAL PLANS
- SCOREBOARD; REF: ELECTRICAL PLANS
- SPORTS LIGHT CONDUIT RUNS; REF: ELECTRICAL PLANS
- CAP
- SPORT LIGHT CONDUIT RUNS; REF: ELECTRICAL PLANS

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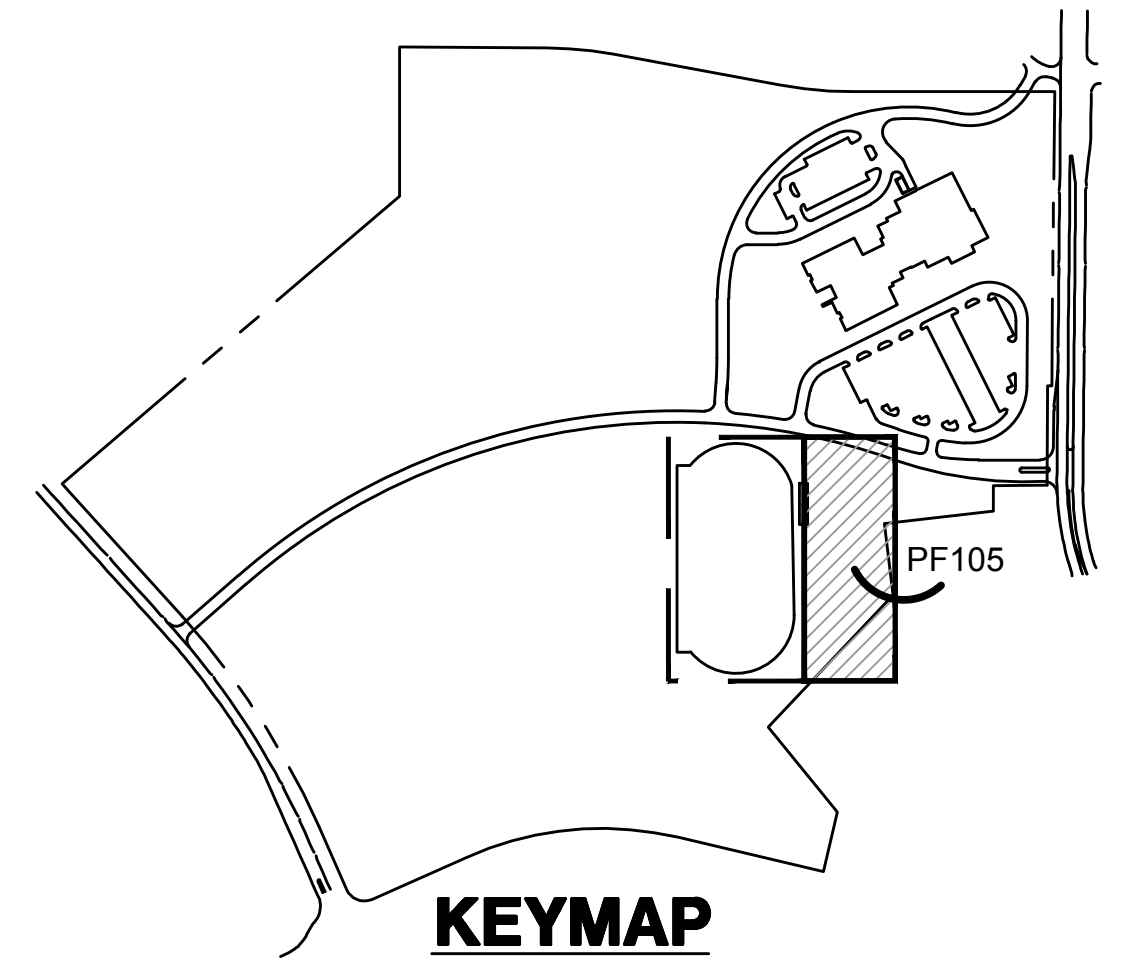
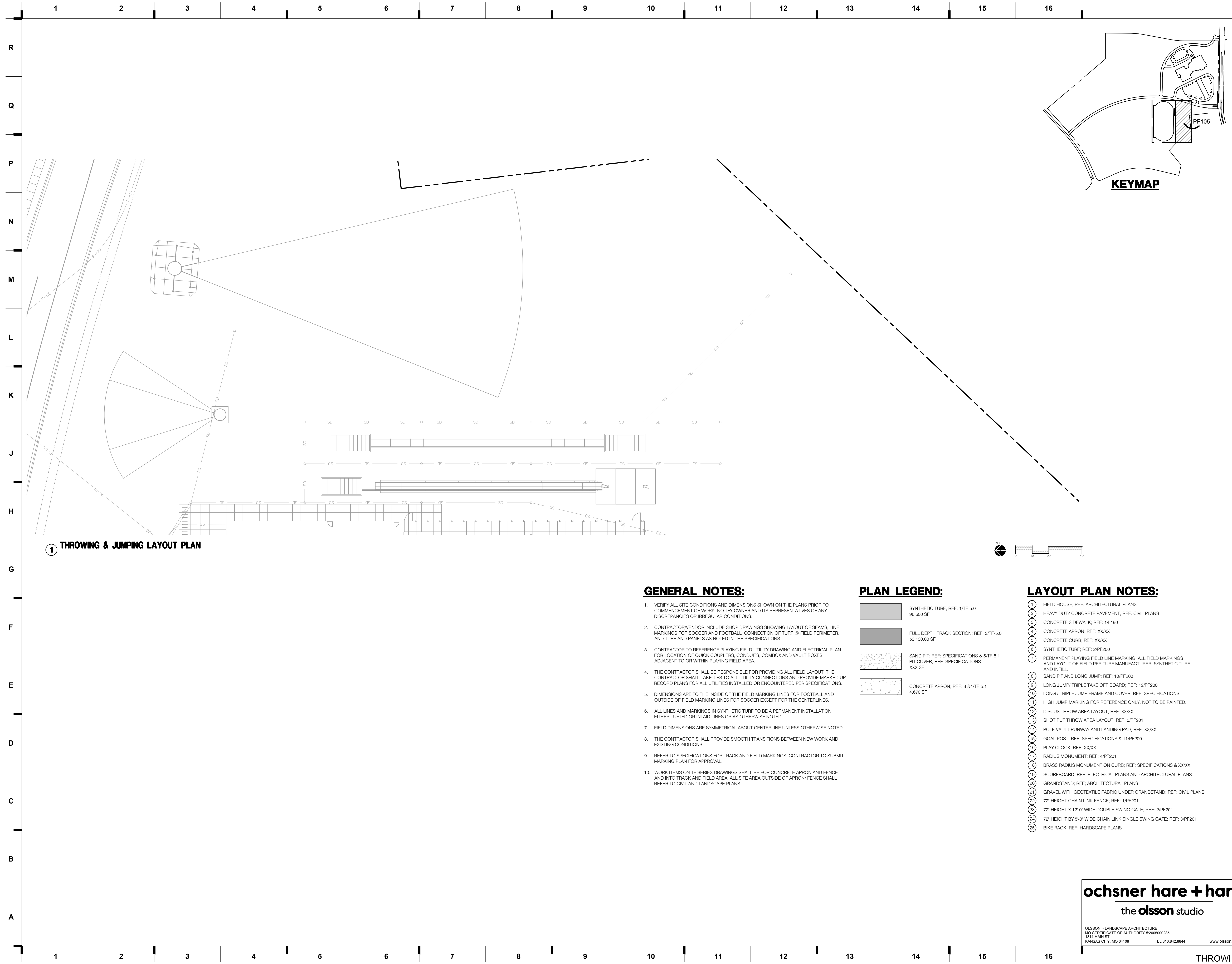


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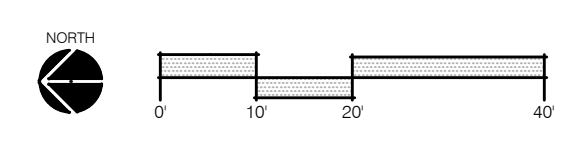
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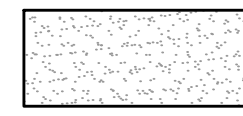
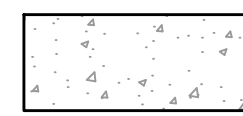
1 THROWING & JUMPING LAYOUT PLAN



GENERAL NOTES:

1. VERIFY ALL SITE CONDITIONS AND DIMENSIONS SHOWN ON THE PLANS PRIOR TO COMMENCEMENT OF WORK. NOTIFY OWNER AND ITS REPRESENTATIVES OF ANY DISCREPANCIES OR IRREGULAR CONDITIONS.
2. CONTRACTOR/VENDOR INCLUDE SHOP DRAWINGS SHOWING LAYOUT OF SEAMS, LINE MARKINGS FOR SOCCER AND FOOTBALL, CONNECTION OF TURF @ FIELD PERIMETER, AND TURF AND PANELS AS NOTED IN THE SPECIFICATIONS.
3. CONTRACTOR TO REFERENCE PLAYING FIELD UTILITY DRAWING AND ELECTRICAL PLAN FOR LOCATION OF QUICK COUPLERS, CONDUITS, COMBO AND VAULT BOXES, ADJACENT TO OR WITHIN PLAYING FIELD AREA.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL FIELD LAYOUT, THE CONTRACTOR SHALL TAKE TIES TO ALL UTILITY CONNECTIONS AND PROVIDE MARKED UP RECORD PLANS FOR ALL UTILITIES INSTALLED OR ENCOUNTERED PER SPECIFICATIONS.
5. DIMENSIONS ARE TO THE INSIDE OF THE FIELD MARKING LINES FOR FOOTBALL AND OUTSIDE OF FIELD MARKING LINES FOR SOCCER EXCEPT FOR THE CENTERLINES.
6. ALL LINES AND MARKINGS IN SYNTHETIC TURF TO BE A PERMANENT INSTALLATION EITHER TUFTED OR INLAID LINES OR AS OTHERWISE NOTED.
7. FIELD DIMENSIONS ARE SYMMETRICAL ABOUT CENTERLINE UNLESS OTHERWISE NOTED.
8. THE CONTRACTOR SHALL PROVIDE SMOOTH TRANSITIONS BETWEEN NEW WORK AND EXISTING CONDITIONS.
9. REFER TO SPECIFICATIONS FOR TRACK AND FIELD MARKINGS. CONTRACTOR TO SUBMIT MARKING PLAN FOR APPROVAL.
10. WORK ITEMS ON TF SERIES DRAWINGS SHALL BE FOR CONCRETE APRON AND FENCE AND INTO TRACK AND FIELD AREA. ALL SITE AREA OUTSIDE OF APRON/ FENCE SHALL REFER TO CIVIL AND LANDSCAPE PLANS.

PLAN LEGEND:

-  SYNTHETIC TURF; REF: 1/TF-5.0
96,600 SF
-  FULL DEPTH TRACK SECTION; REF: 3/TF-5.0
53,130.00 SF
-  SAND PIT; REF: SPECIFICATIONS & 5/TF-5.1
PIT COVER; REF: SPECIFICATIONS
XXX SF
-  CONCRETE APRON; REF: 3 & 4/TF-5.1
4,670 SF

LAYOUT PLAN NOTES:

- 1 FIELD HOUSE; REF: ARCHITECTURAL PLANS
- 2 HEAVY DUTY CONCRETE PAVEMENT; REF: CIVIL PLANS
- 3 CONCRETE SIDEWALK; REF: 1/L190
- 4 CONCRETE APRON; REF: XXXX
- 5 CONCRETE CURB; REF: XXXX
- 6 SYNTHETIC TURF; REF: 2/PF200
- 7 PERMANENT PLAYING FIELD LINE MARKING. ALL FIELD MARKINGS AND LAYOUT OF FIELD PER TURF MANUFACTURER. SYNTHETIC TURF AND INFILL.
- 8 SAND PIT AND LONG JUMP; REF: 10/PF200
- 9 LONG JUMP/ TRIPLE TAKE OFF BOARD; REF: 12/PF200
- 10 LONG / TRIPLE JUMP FRAME AND COVER; REF: SPECIFICATIONS
- 11 HIGH JUMP MARKING FOR REFERENCE ONLY. NOT TO BE PAINTED.
- 12 DISCUS THROW AREA LAYOUT; REF: XXXX
- 13 SHOT PUT THROW AREA LAYOUT; REF: 5/PF201
- 14 POLE VAULT RUNWAY AND LANDING PAD; REF: XXXX
- 15 GOAL POST; REF: SPECIFICATIONS & 11/PF200
- 16 PLAY CLOCK; REF: XXXX
- 17 RADIUS MONUMENT; REF: 4/PF201
- 18 BRASS RADIUS MONUMENT ON CURB; REF: SPECIFICATIONS & XXXX
- 19 SCOREBOARD; REF: ELECTRICAL PLANS AND ARCHITECTURAL PLANS
- 20 GRANDSTAND; REF: ARCHITECTURAL PLANS
- 21 GRAVEL WITH GEOTEXTILE FABRIC UNDER GRANDSTAND; REF: CIVIL PLANS
- 22 72" HEIGHT CHAIN LINK FENCE; REF: 1/PF201
- 23 72" HEIGHT X 12'-0" WIDE DOUBLE SWING GATE; REF: 2/PF201
- 24 72" HEIGHT BY 5'-0" WIDE CHAIN LINK SINGLE SWING GATE; REF: 3/PF201
- 25 BIKE RACK; REF: LANDSCAPE PLANS

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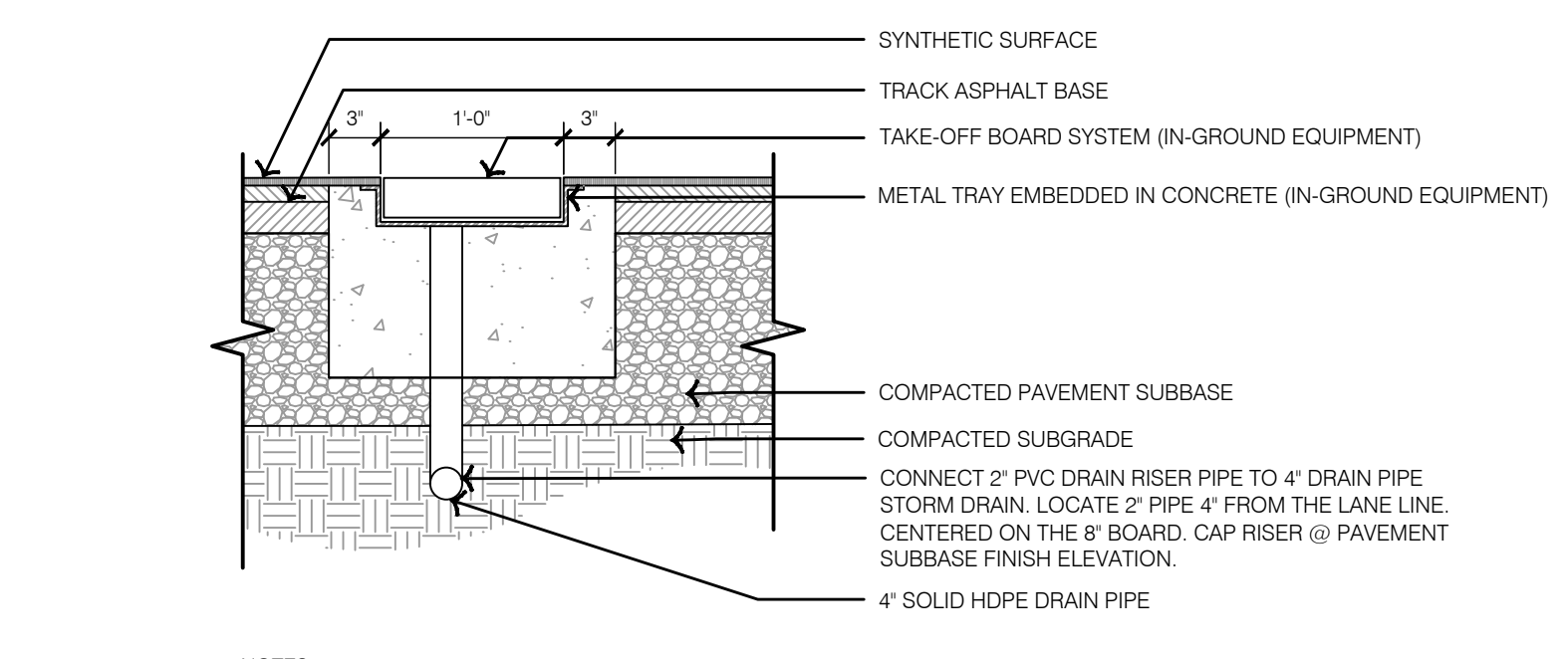


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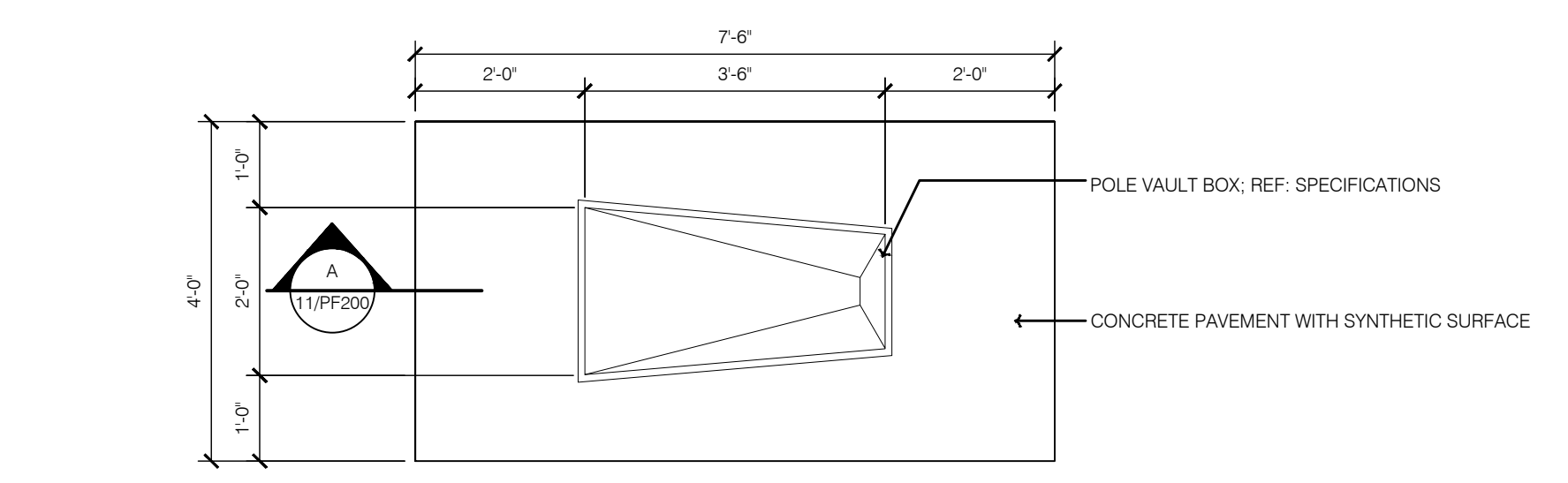
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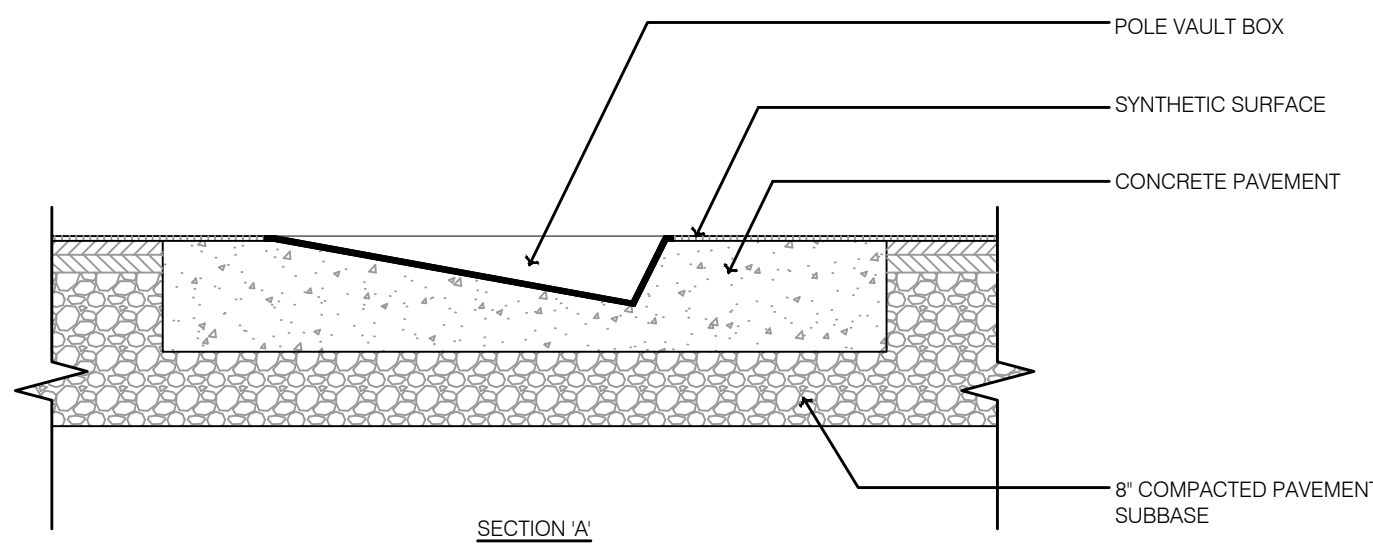
NOTES:
1. ALL DRAWINGS DEPICTING IN-GROUND EQUIPMENT ARE FOR BIDDING ONLY. REFER TO SHOP DRAWINGS FOR INSTALLATION, DIMENSIONS, AND INSTRUCTIONS.
2. METAL TRAY TO RECEIVE REMOVABLE SYNTHETIC SURFACE PLUG, WHEN TAKE-OFF BOARD SYSTEM IS REMOVED.

10 LONG JUMP & TRIPLE JUMP TAKEOFF BOARD DETAIL



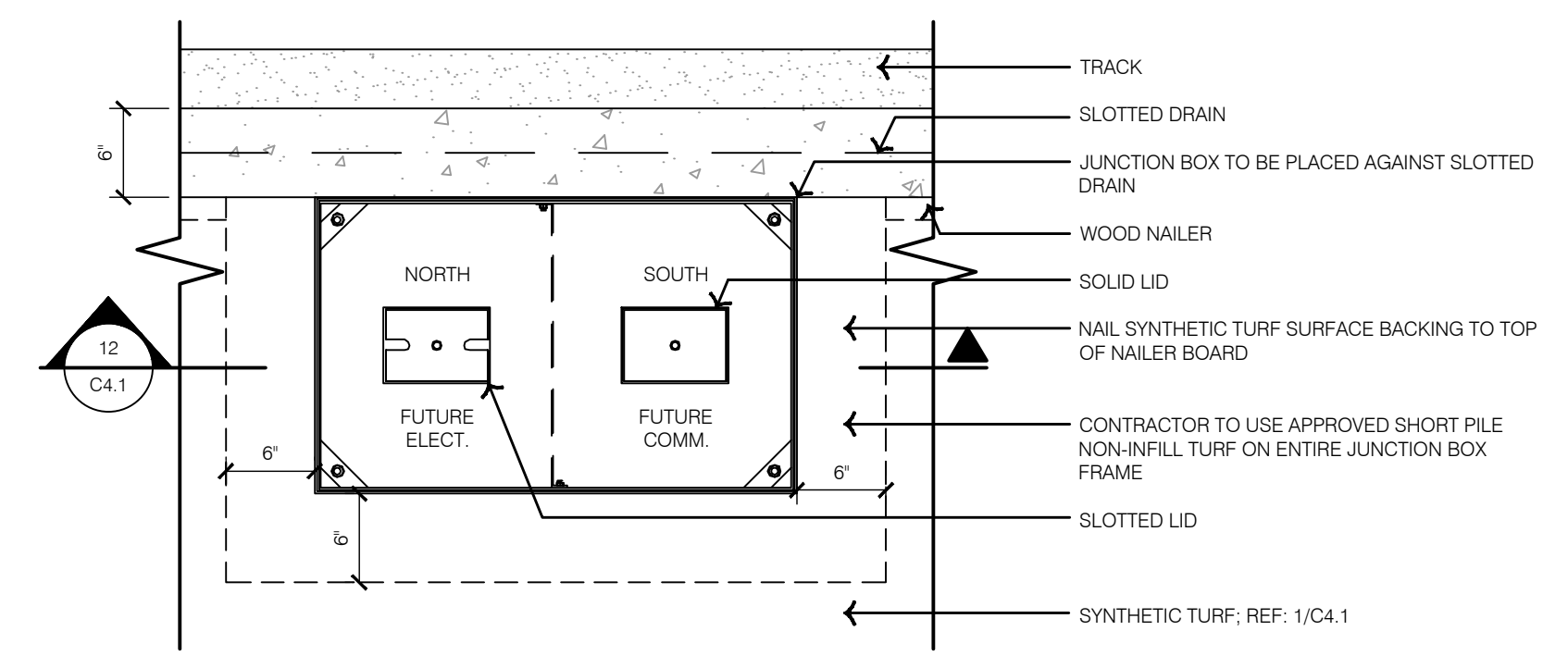
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11 TYPICAL POLE VAULT BOX DETAILS



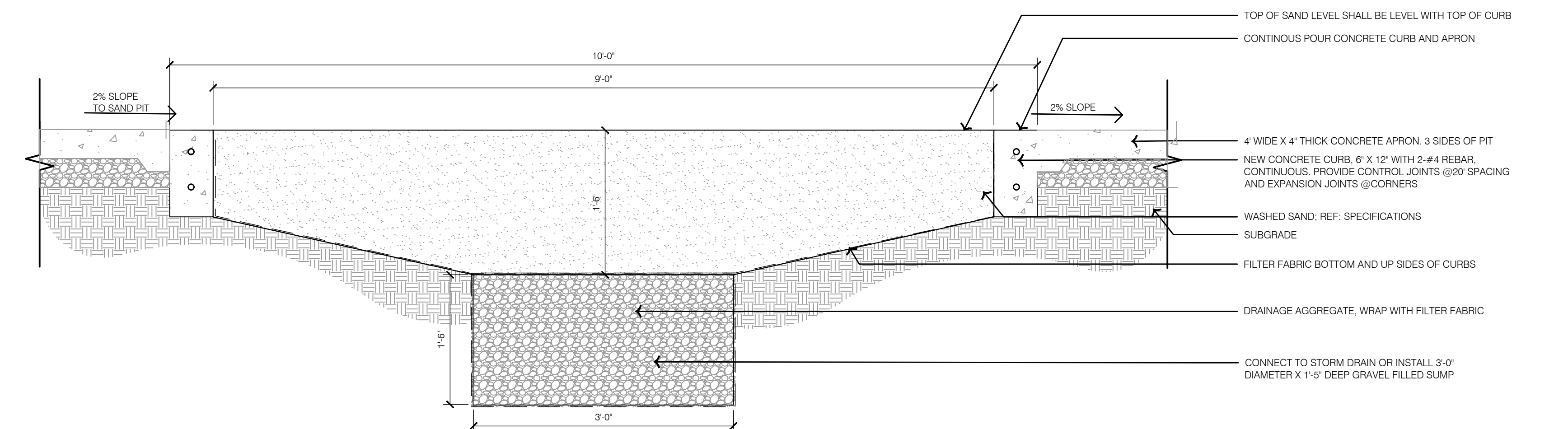
NOTES:
1. CONTRACTOR TO SUBMIT SEALED FOOTING DRAWING BY ENGINEER FOR OWNER APPROVAL.

7 TYPICAL FOOTBALL GOAL SLEEVE DETAIL

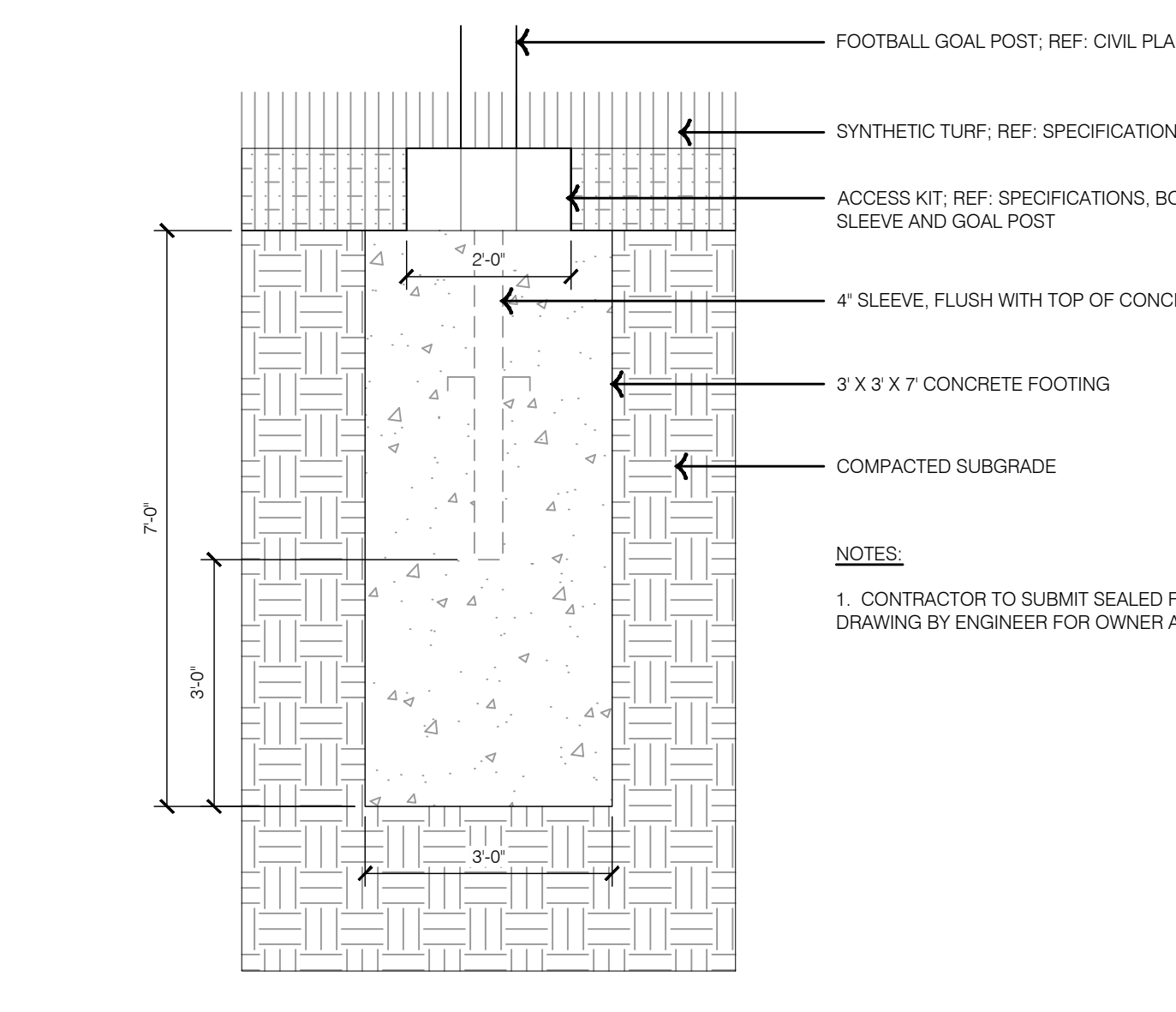


NOTES:
1. NORTH SIDE OF BOX TO BE ONE CONDUIT, SOUTH SIDE TO BE TWO CONDUITS.
2. COLLAR AND LID TO CONFORM WITH FIELD SLOPE.
3. SEE CIVIL PLANS FOR COMBOX LOCATION.
4. USE TURF STYLE COMBOX/JUNCTION BOX IN TURF AREAS, REF: SPECIFICATIONS.

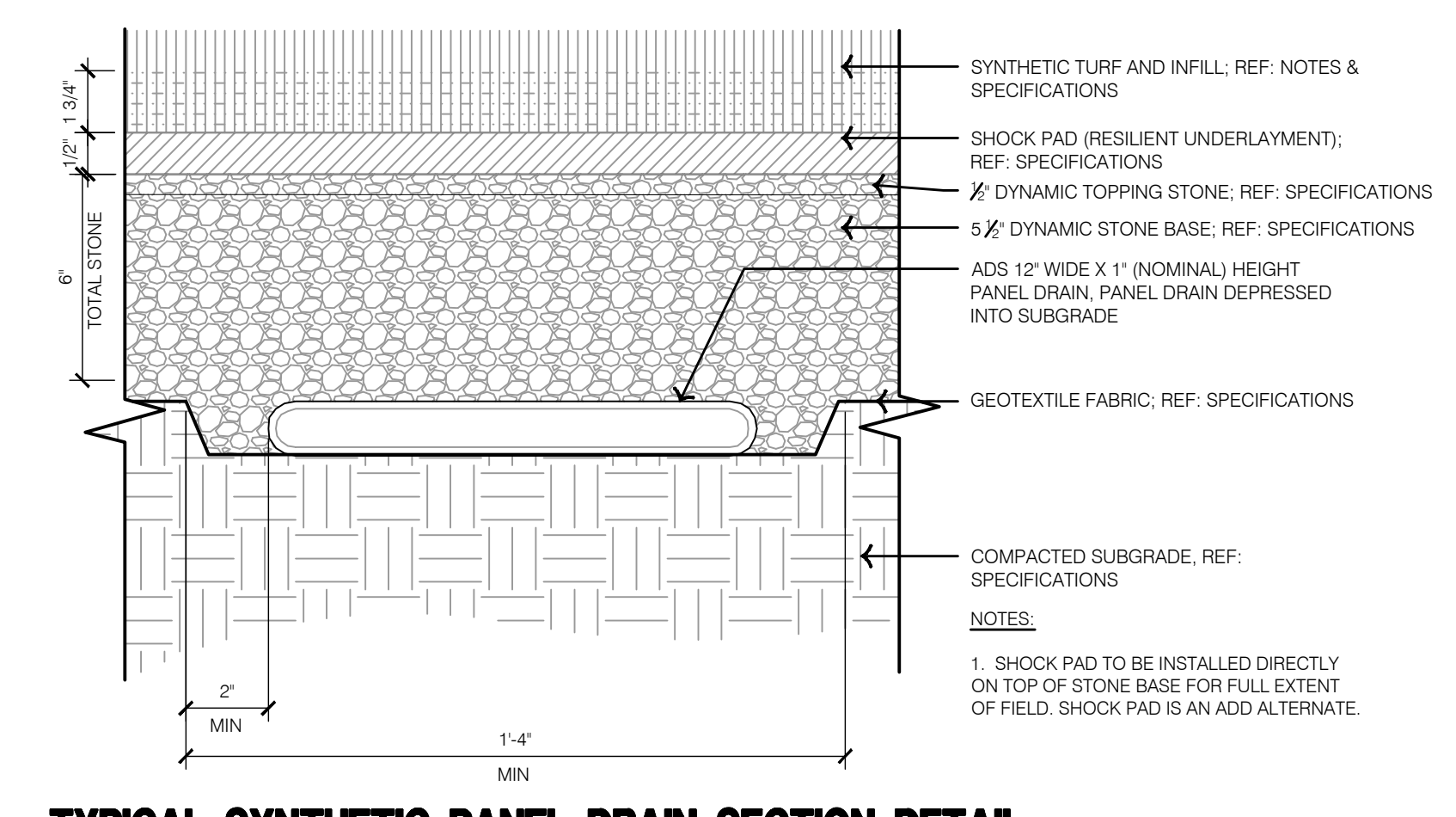
4 TYPICAL JUNCTION BOX PLAN DETAIL



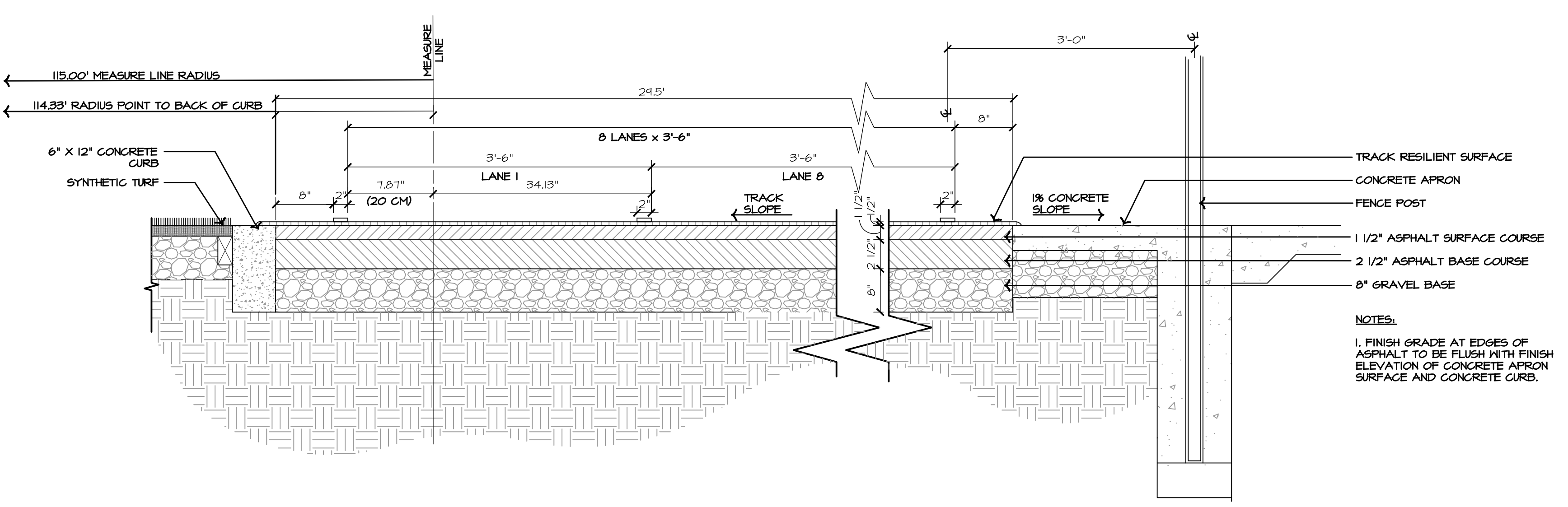
10 TYPICAL LONG JUMP SAND PIT SECTION DETAIL



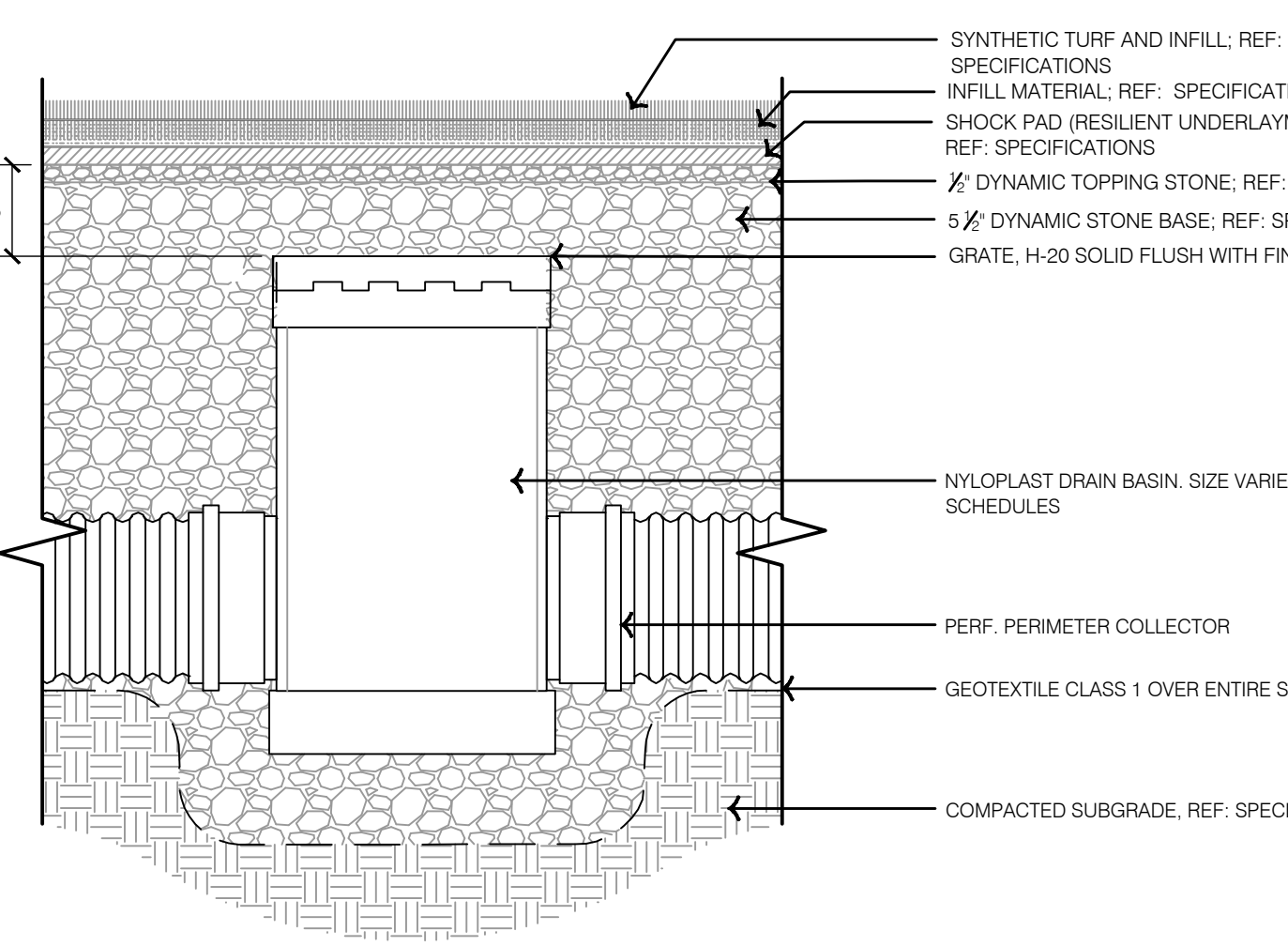
3 TYPICAL SYNTHETIC PANEL DRAIN SECTION DETAIL



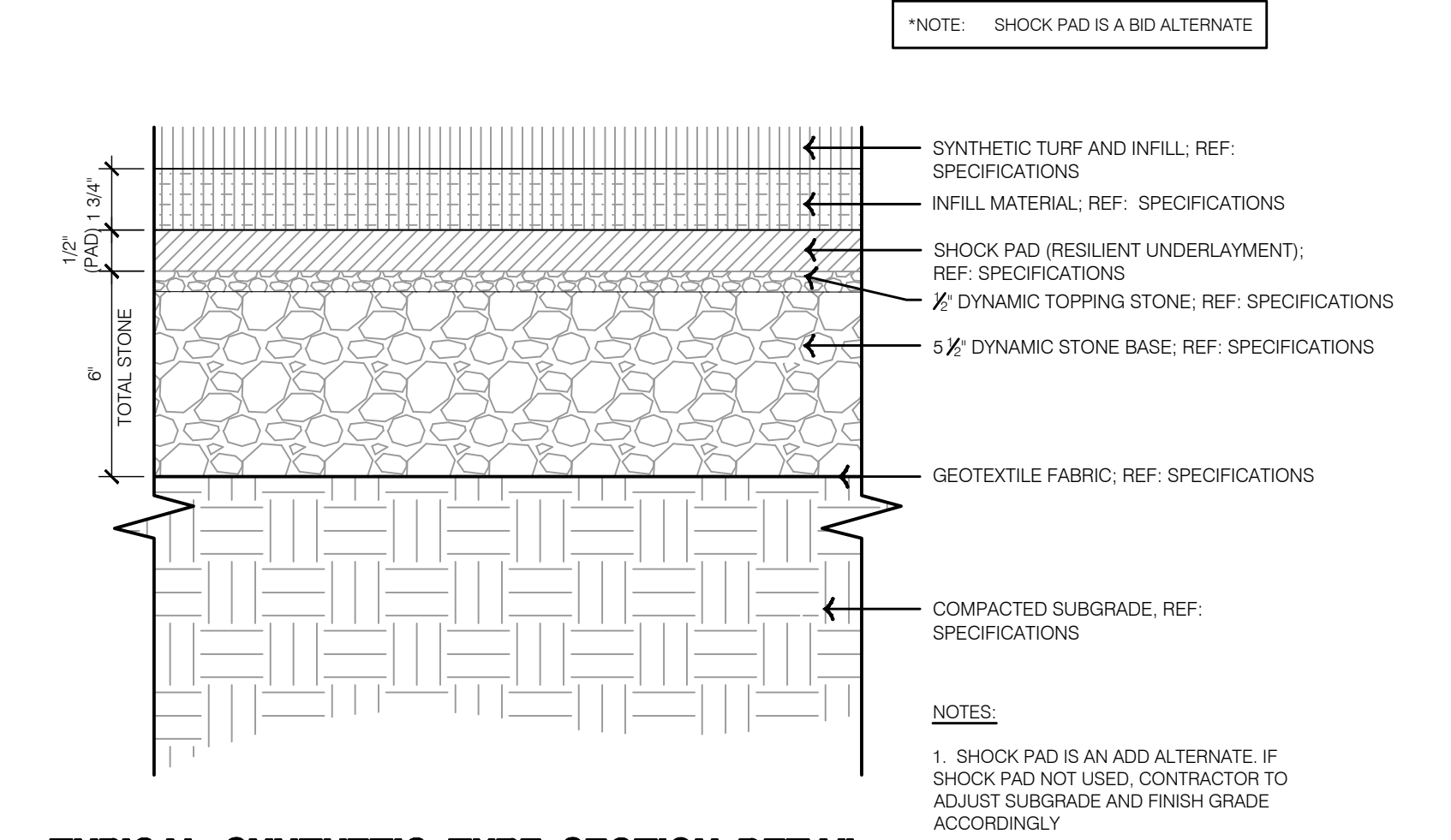
2 TYPICAL SYNTHETIC TURF SECTION DETAIL



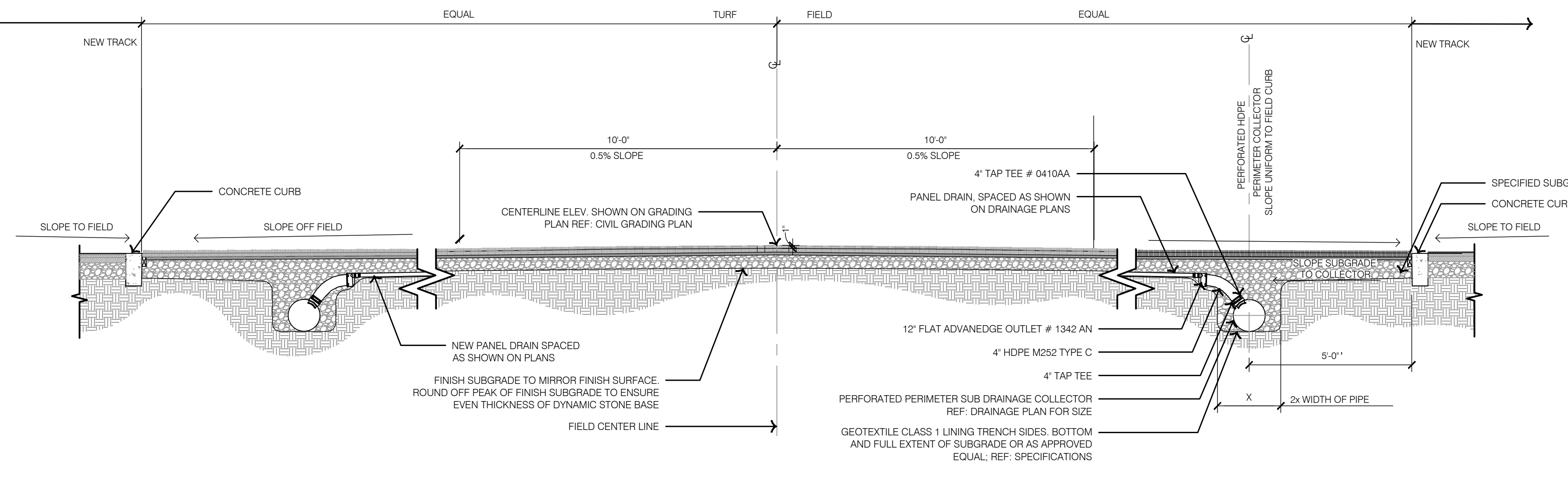
9 TRACK PAVEMENT SECTION



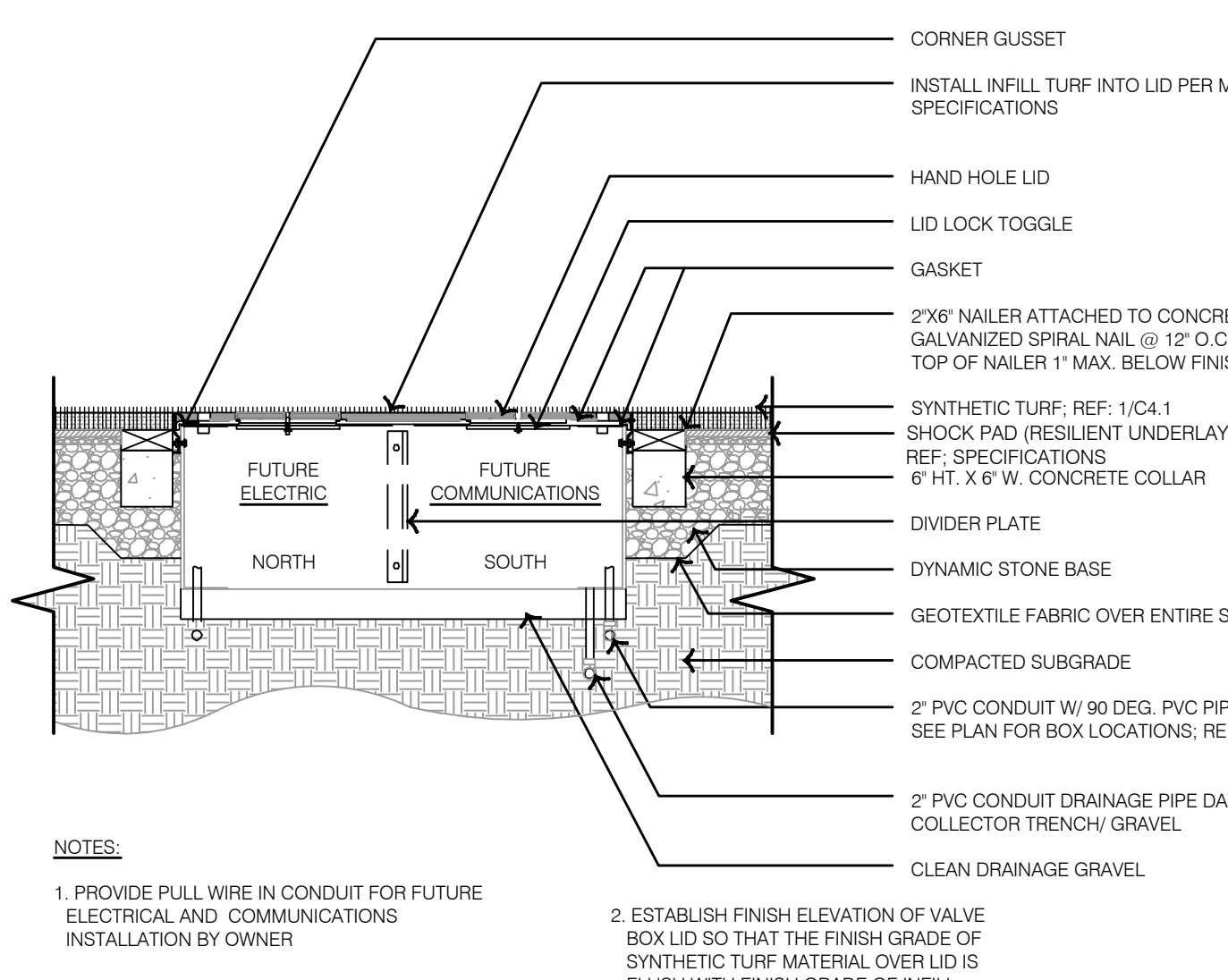
6 TYPICAL NYLOPLAST DRAIN BASIN AT SUBGRADE DETAIL



1 TYPICAL TURF SIDEWALK NAILER



8 TYPICAL PLAYING FIELD CROSS SECTION



5 TYPICAL JUNCTION BOX SECTION DETAIL

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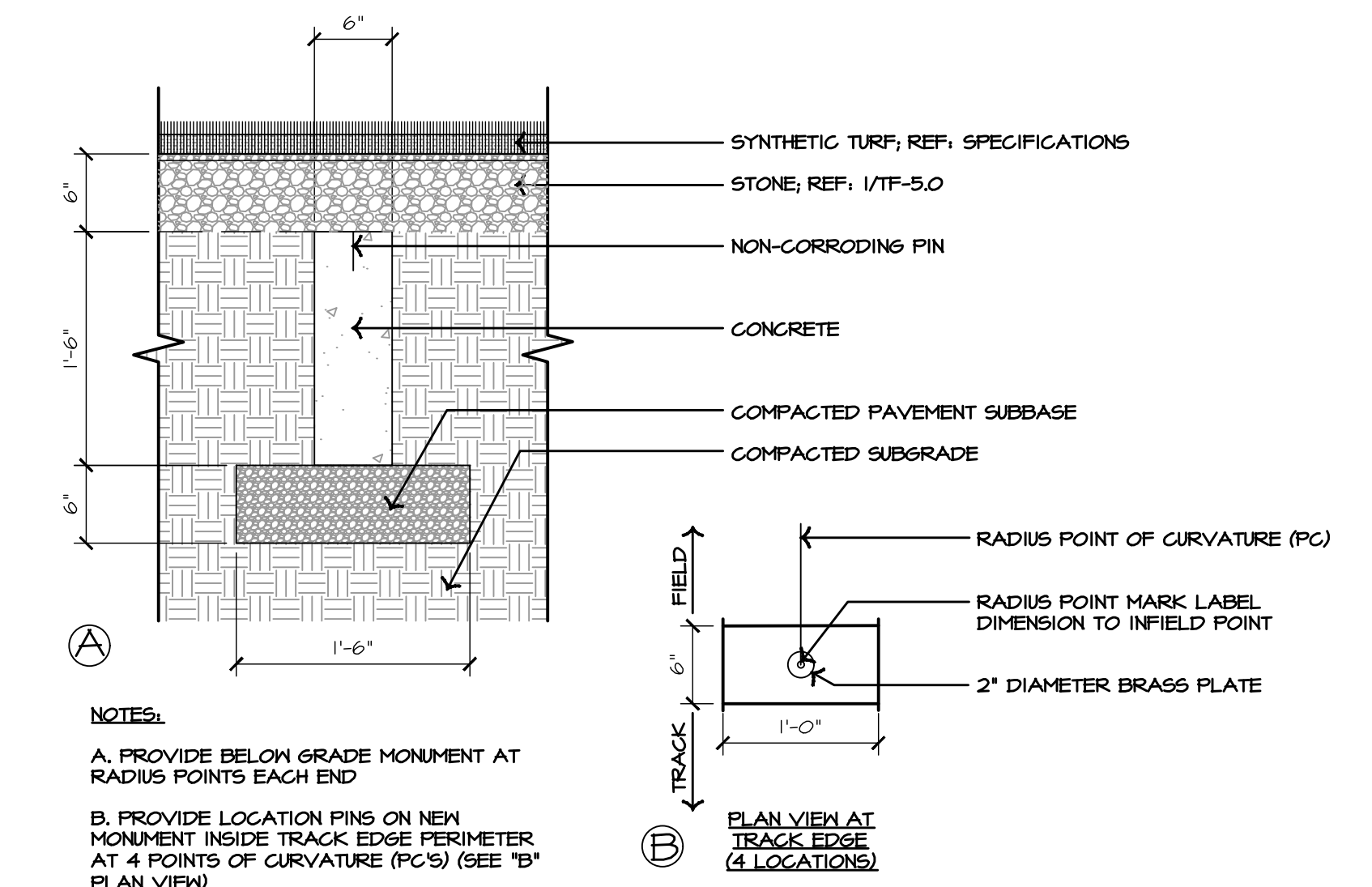
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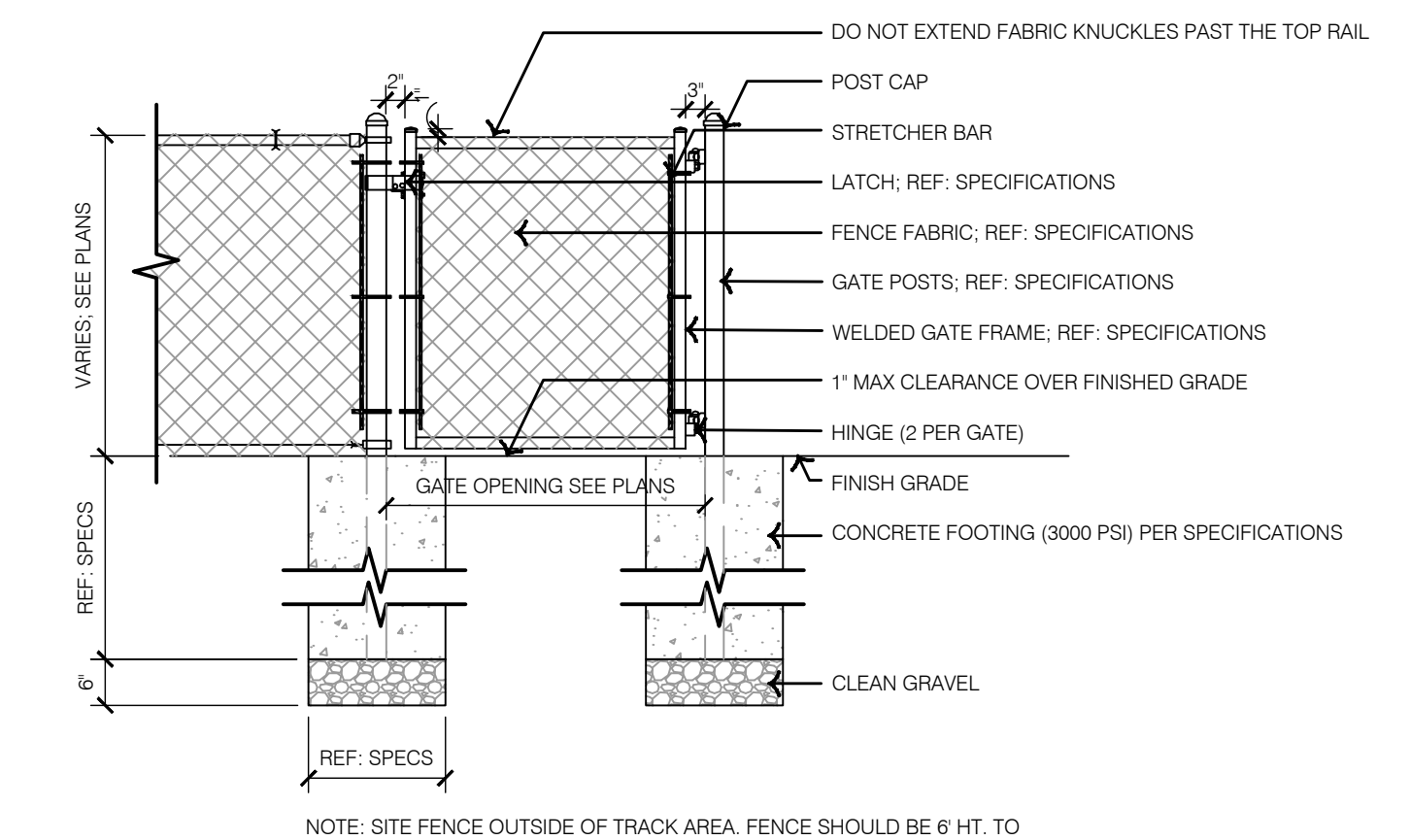
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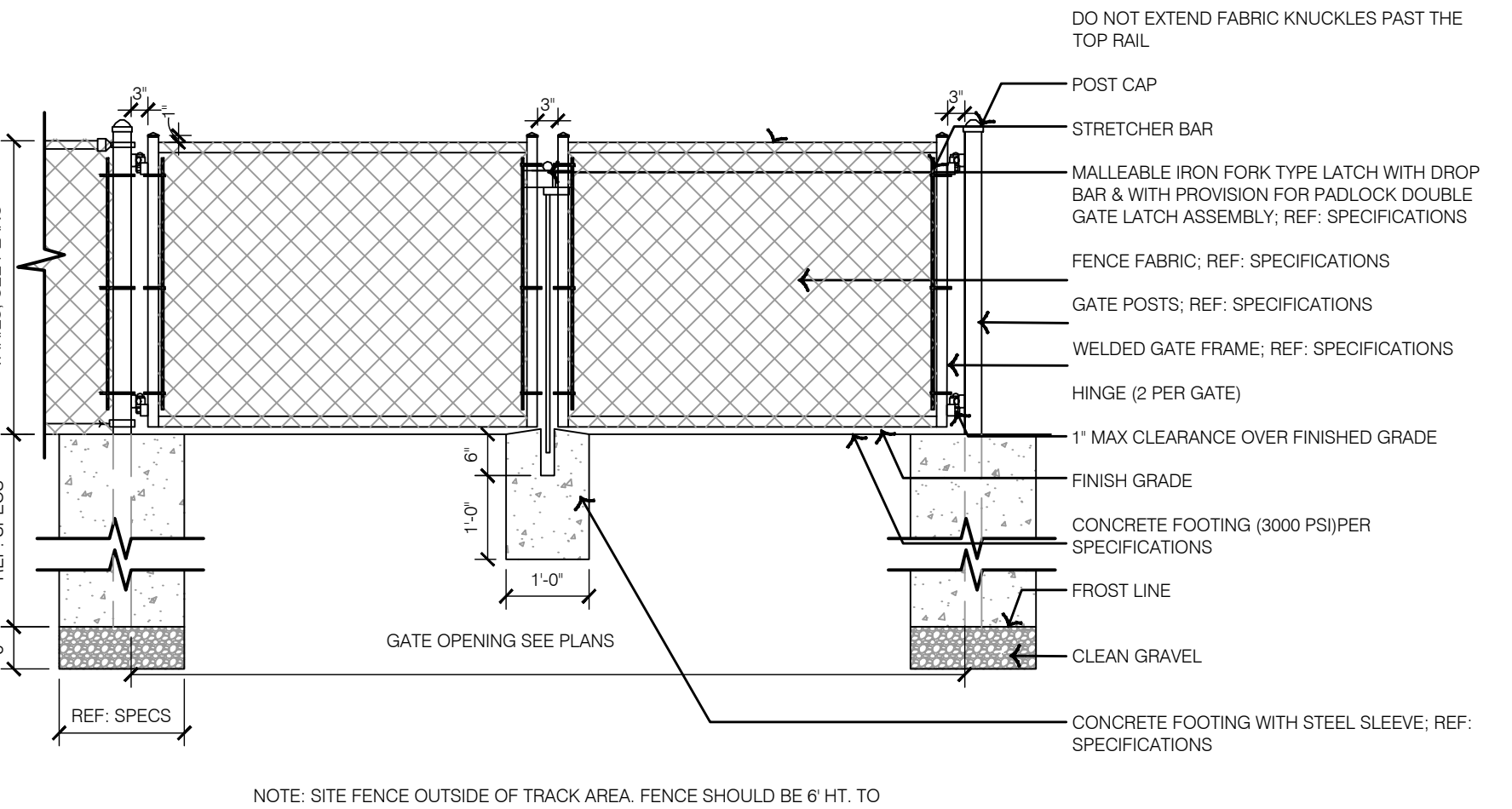
PLAYING FIELD DETAILS



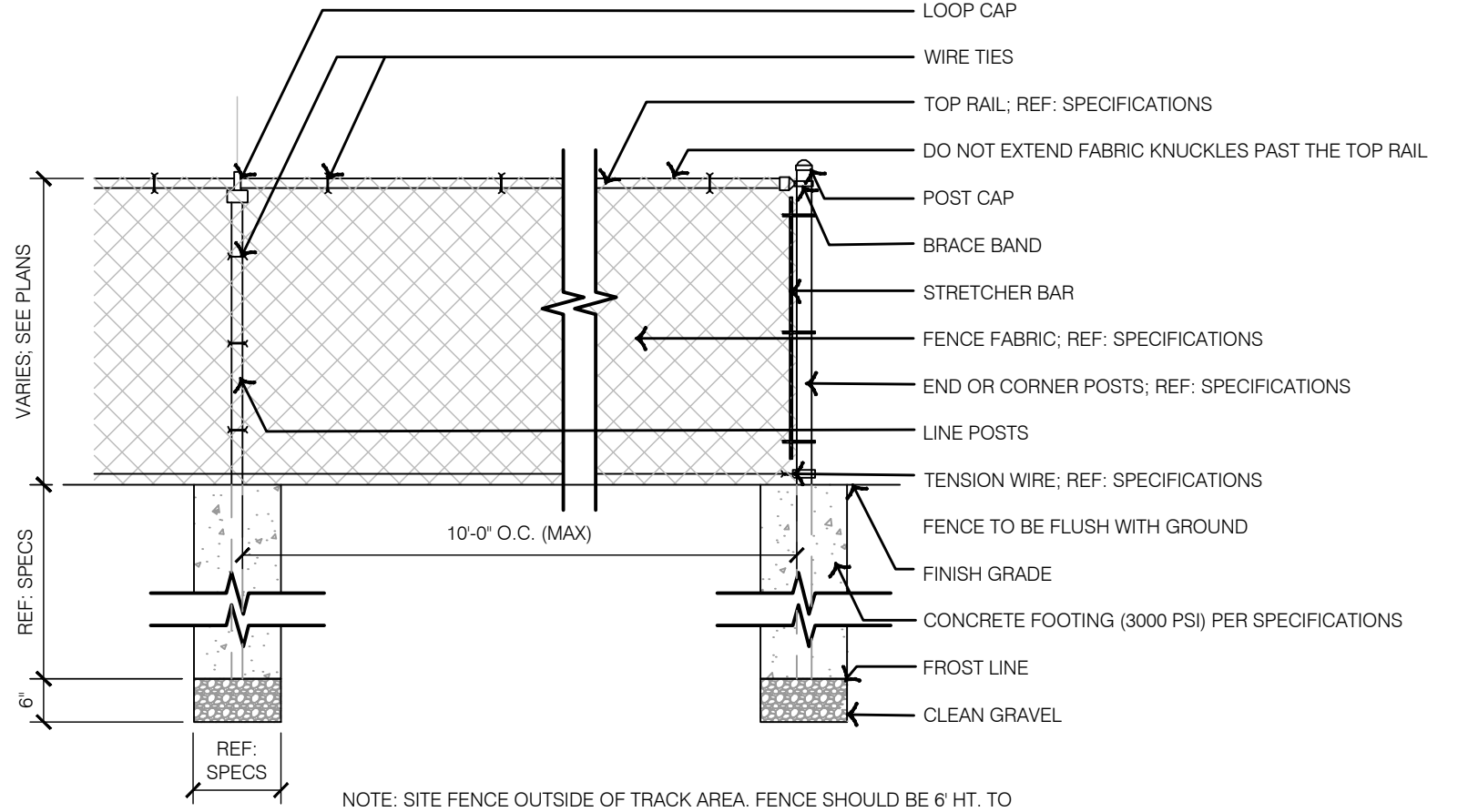
4 TYPICAL TRACK RADIUS MONUMENT DETAIL



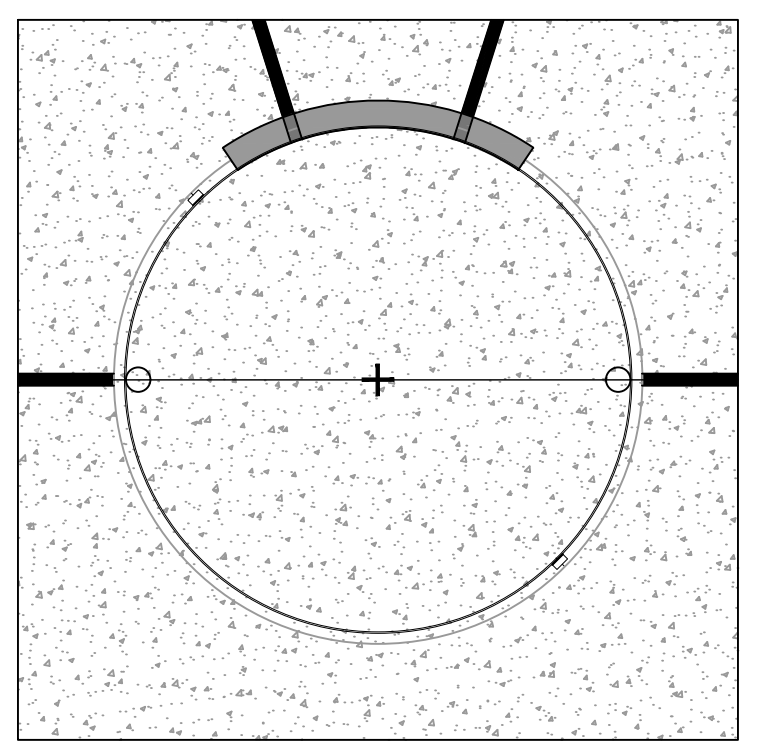
3 TYPICAL CHAINLINK SINGLE GATE DETAIL



2 TYPICAL CHAINLINK DOUBLE GATE DETAIL



1 TYPICAL CHAINLINK FENCE DETAIL



5 SHOT PUT THROW CIRCLE PLAN

- NOTES:
- ALL DRAWINGS DEPICTING IN-GROUND EQUIPMENTS ARE FOR INFORMATION ONLY. REFER TO MANUFACTURER SHOP DRAWINGS FOR INSTALLATION DIMENSIONS AND INSTRUCTIONS.
 - CONCRETE TEXTURE IS A LIGHT BROOM FINISH. OWNERS REPRESENTATIVE TO BE PRESENT UPON CONCRETE INSTALLATION TO VERIFY PROPER TEXTURE.

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