

5000 Glenwood Avenue Golden Valley, MN 55422

ivilsitegroup.com

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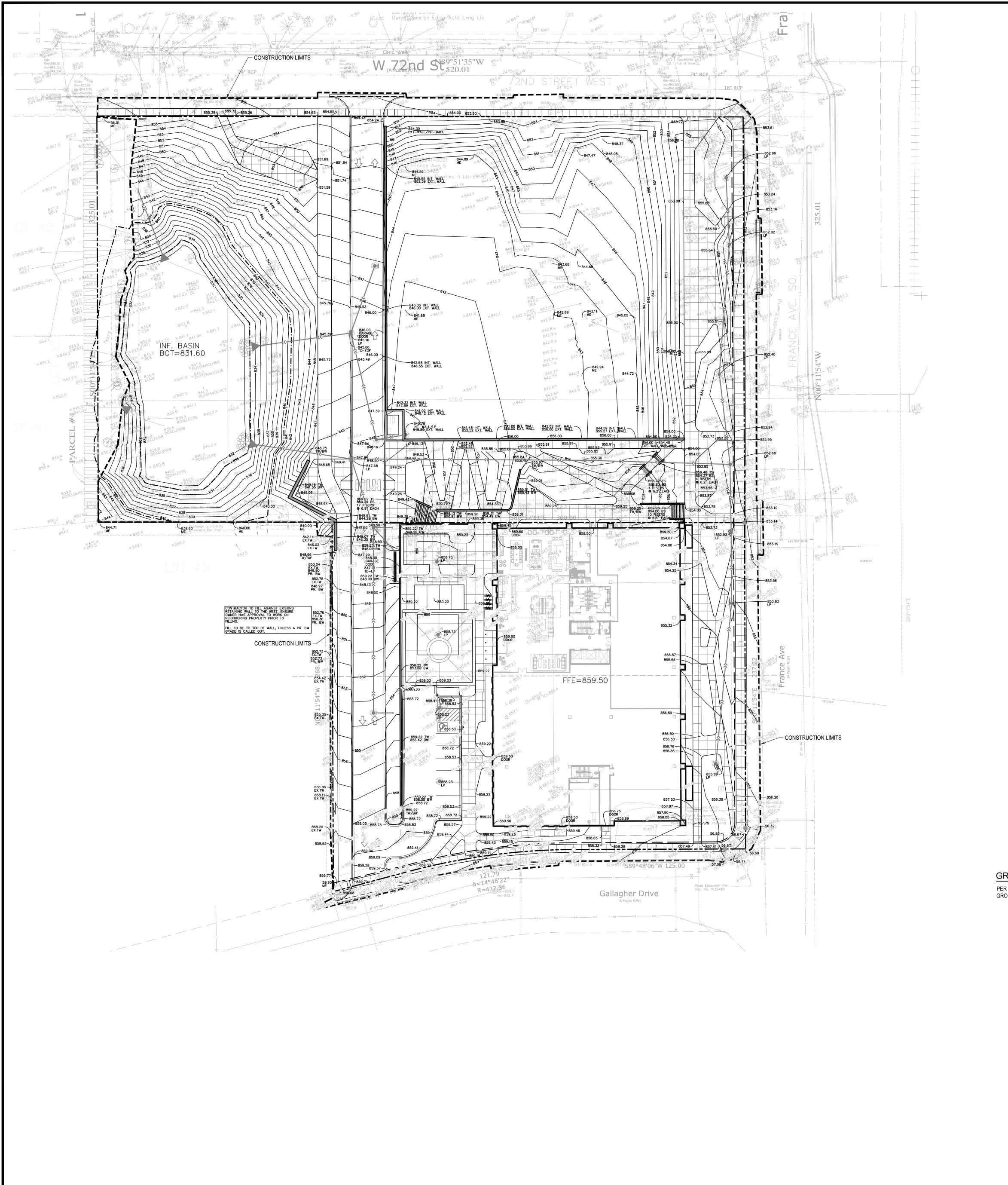
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DATE 1/10/23 LICENSE NO. 48776 ISSUE/SUBMITTAL SUMMARY DATE DESCRIPTION 06/30/2022 CITY SUBMITTAL 8/12/2022 PUD SUBMISSION 1/10/23 FINAL PUD SUBMITTAL

DRAWN BY: AM REVIEWED BY: DK PROJECT NUMBER: 21419 **REVISION SUMMARY** DATE DESCRIPTION

TURNING MOVEMENTS





GENERAL GRADING NOTES:

- 1. CONTRACTOR SHALL VERIFY ALL BUILDING ELEVATIONS, (FFE, LFE, GFE), PRIOR TO CONSTRUCTION BY CROSS CHECKING WITH ARCHITECTURAL, STRUCTURAL AND CIVIL ELEVATIONS FOR EQUIVALENT "100" ELEVATIONS. THIS MUST BE DONE PRIOR TO EXCAVATION AND INSTALLATION OF ANY FOOTING MATERIALS. VERIFICATION OF THIS COORDINATION SHALL BE CONFIRMED IN WRITING BY CIVIL, SURVEYOR, ARCHITECTURAL, STRUCTURAL AND CONTRACTOR PRIOR TO CONSTRUCTION.
- 2. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- 3. SEE SITE PLAN FOR HORIZONTAL LAYOUT & GENERAL GRADING NOTES.
- 4. THE CONTRACTOR SHALL COMPLETE THE SITE GRADING CONSTRUCTION (INCLUDING BUT NOT LIMITED TO SITE PREPARATION, SOIL CORRECTION, EXCAVATION, EMBANKMENT, ETC.) IN ACCORDANCE WITH THE REQUIREMENTS OF THE OWNER'S SOILS ENGINEER. ALL SOIL TESTING SHALL BE COMPLETED BY THE OWNER'S SOILS ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL REQUIRED SOIL TESTS AND INSPECTIONS WITH THE SOILS ENGINEER.
- 5. ANY ELEMENTS OF AN EARTH RETENTION SYSTEM AND RELATED EXCAVATIONS THAT FALL WITHIN THE PUBLIC RIGHT OF WAY WILL REQUIRE A "RIGHT OF WAY EXCAVATION PERMIT". CONTRACTOR IS RESPONSIBLE FOR AQUIRING THIS PERMIT PRIOR TO CONSTRUCTION IF APPLICABLE
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- 4. PROPOSED SPOT GRADES ARE FLOW-LINE FINISHED GRADE ELEVATIONS, UNLESS OTHERWISE NOTED.
- 5. GRADES OF WALKS SHALL BE INSTALLED WITH 5% MAX. LONGITUDINAL SLOPE AND 1% MIN. AND 2% MAX. CROSS SLOPE, UNLESS OTHERWISE NOTED.
- 6. PROPOSED SLOPES SHALL NOT EXCEED 3:1 UNLESS INDICATED OTHERWISE ON THE DRAWINGS. MAXIMUM SLOPES IN MAINTAINED
- 7. PROPOSED RETAINING WALLS, FREESTANDING WALLS, OR COMBINATION OF WALL TYPES GREATER THAN 4' IN HEIGHT SHALL BE DESIGNED AND ENGINEERED BY A REGISTERED RETAINING WALL ENGINEER. DESIGN DRAWINGS SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.
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- 13. TOLERANCES
- 13.1. THE BUILDING SUBGRADE FINISHED SURFACE ELEVATION SHALL NOT VARY BY MORE THAN 0.30 FOOT ABOVE, OR 0.30 FOOT BELOW, THE PRESCRIBED ELEVATION AT ANY POINT WHERE MEASUREMENT IS MADE.
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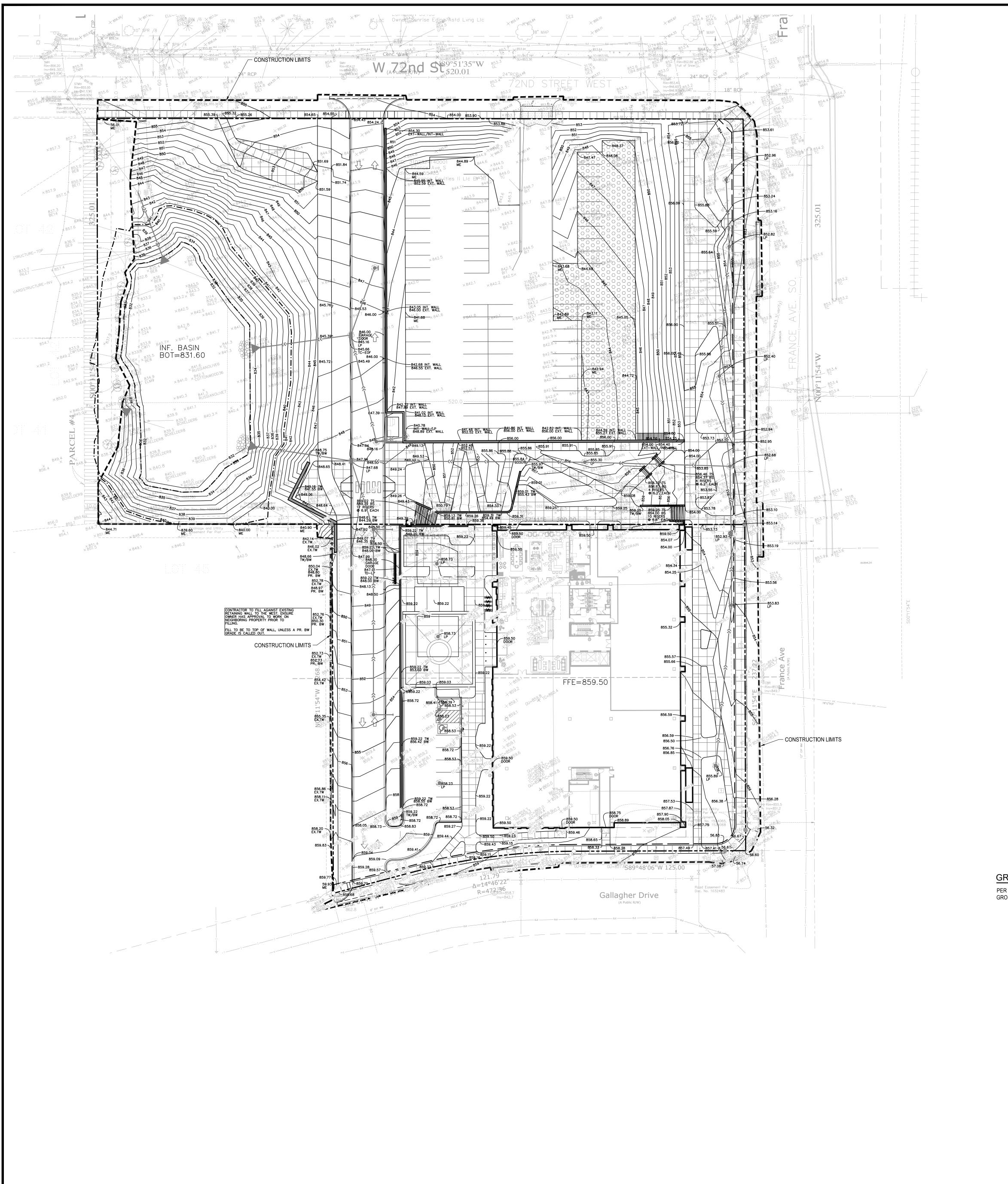
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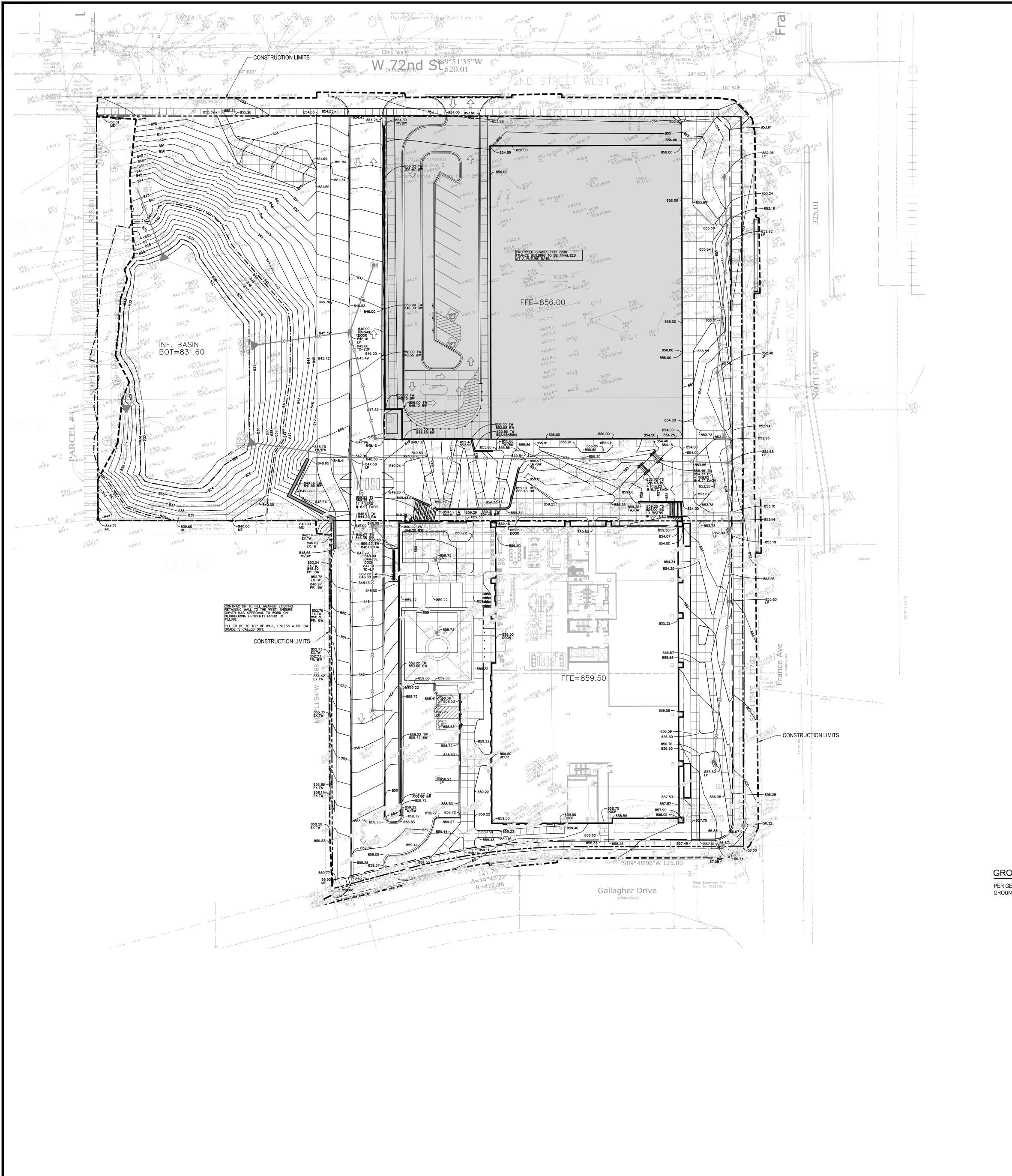
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RAWN BY: AM REVIEWED BY: DK PROJECT NUMBER: 21419 REVISION SUMMARY DATE DESCRIPTION

PH. 2 GRADING PLAN



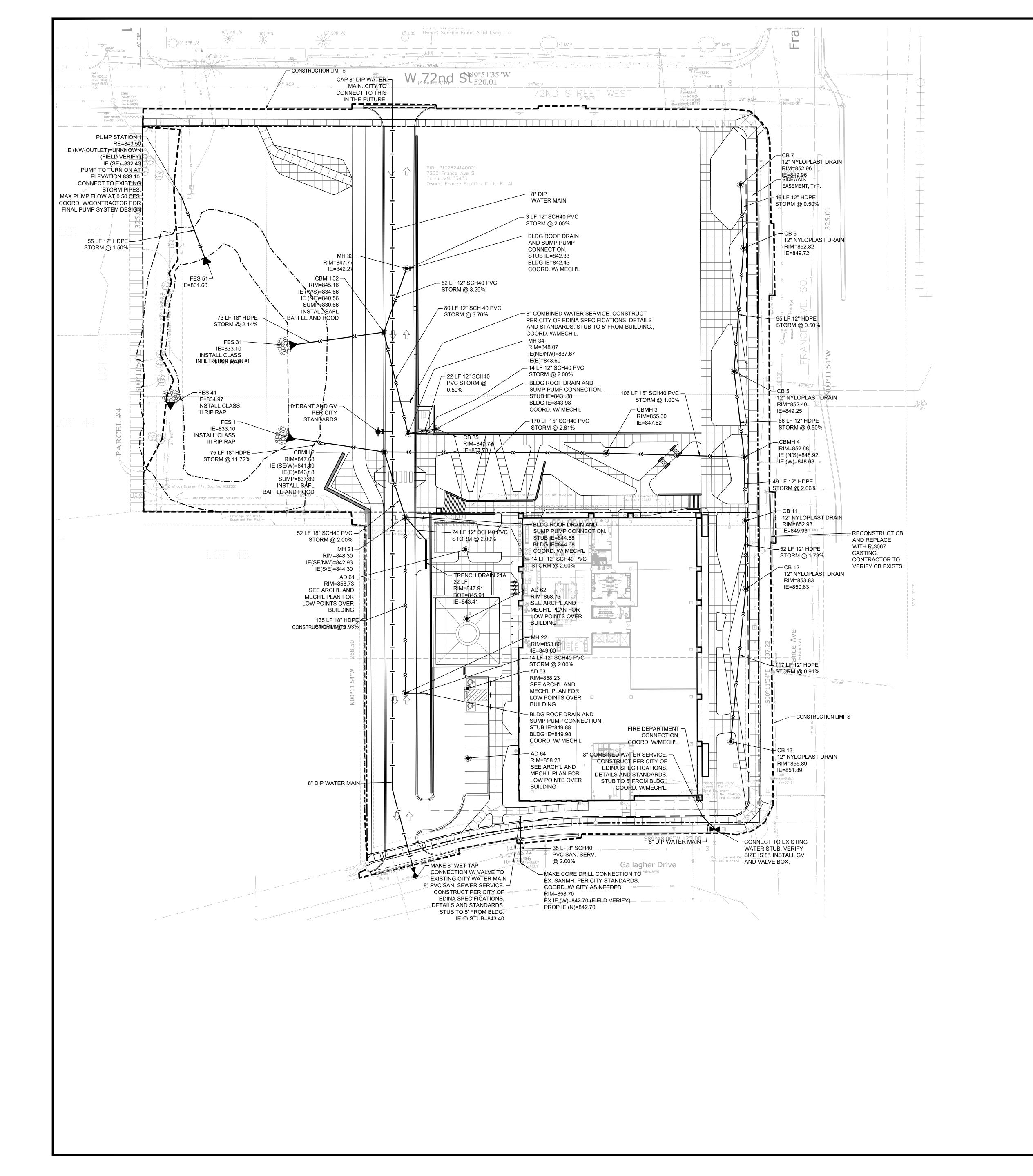
PHASE II CONSTRUCTION LIMITS ----- 1125 ----- EX. 1' CONTOUR ELEVATION INTERVAL 1.0' CONTOUR ELEVATION INTERVAL 41.26 SPOT GRADE ELEVATION (GUTTER/FLOW LINE UNLESS OTHERWISE NOTED) 891.00 G 891.00 TC

SPOT GRADE ELEVATION GUTTER SPOT GRADE ELEVATION TOP OF CURB 891.00 BS/TS SPOT GRADE ELEVATION BOTTOM OF STAIRS/TOP OF STAIRS 891.00 ME

SPOT GRADE ELEVATION MATCH EXISTING GRADE BREAK - HIGH POINTS CURB AND GUTTER (T.O = TIP OUT)

EMERGENCY OVERFLOW EOF=1135.52





GENERAL UTILITY NOTES:

- SEE SITE PLAN FOR HORIZONTAL DIMENSIONS AND LAYOUT.
- 2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF DISCREPANCIES OR VARIATIONS FROM THE PLANS.
- 3. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTACT "GOPHER STATE ONE CALL" (651-454-0002 OR 800-252-1166) FOR UTILITY LOCATIONS, 48 HOURS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES THAT ARE DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.
- 4. UTILITY INSTALLATION SHALL CONFORM TO THE CURRENT EDITION OF "STANDARD SPECIFICATIONS FOR WATER MAIN AND SERVICE LINE INSTALLATION" AND "SANITARY SEWER AND STORM SEWER INSTALLATION" AS PREPARED BY THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM), AND SHALL CONFORM WITH THE REQUIREMENTS OF THE CITY AND THE PROJECT SPECIFICATIONS.
- 5. CASTINGS SHALL BE SALVAGED FROM STRUCTURE REMOVALS AND RE-USED OR PLACED AT THE DIRECTION OF THE OWNER.
- 6. ALL WATER PIPE SHALL BE CLASS 52 DUCTILE IRON PIPE (DIP) AWWA C151, ASME B16.4, AWWA C110, AWWA C153 UNLESS OTHERWISE
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- 9. PIPE LENGTHS SHOWN ARE FROM CENTER TO CENTER OF STRUCTURE OR TO END OF FLARED END SECTION.
- 10. UTILITIES ON THE PLAN ARE SHOWN TO WITHIN 5' OF THE BUILDING FOOTPRINT. THE CONTRACTOR IS ULTIMATELY RESPONSIBLE FOR THE FINAL CONNECTION TO BUILDING LINES. COORDINATE WITH ARCHITECTURAL AND MECHANICAL PLANS.
- 11. CATCH BASINS AND MANHOLES IN PAVED AREAS SHALL BE SUMPED 0.04 FEET. ALL CATCH BASINS IN GUTTERS SHALL BE SUMPED 0.15 FEET PER DETAILS. RIM ELEVATIONS SHOWN ON THIS PLAN DO NOT REFLECT SUMPED ELEVATIONS.
- 12. ALL FIRE HYDRANTS SHALL BE LOCATED 5 FEET BEHIND BACK OF CURB UNLESS OTHERWISE NOTED.
- 13. HYDRANT TYPE, VALVE, AND CONNECTION SHALL BE IN ACCORDANCE WITH CITY REQUIREMENTS. HYDRANT EXTENSIONS ARE INCIDENTAL.

MAINTAIN A MINIMUM OF 18" VERTICAL SEPARATION TO SANITARY OR STORM SEWER LINES. EXTRA DEPTH WATERMAIN IS INCIDENTAL.

- 14. A MINIMUM OF 8 FEET OF COVER IS REQUIRED OVER ALL WATERMAIN, UNLESS OTHERWISE NOTED. EXTRA DEPTH MAY BE REQUIRED TO
- 15. A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION AND 10 FEET OF HORIZONTAL SEPARATION IS REQUIRED FOR ALL UTILITIES, UNLESS OTHERWISE NOTED.
- 16. ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE IN ACCORDANCE WITH CITY STANDARDS AND COORDINATED WITH THE CITY PRIOR TO CONSTRUCTION.
- 17. CONNECTIONS TO EXISTING STRUCTURES SHALL BE CORE-DRILLED.
- 18. COORDINATE LOCATIONS AND SIZES OF SERVICE CONNECTIONS WITH THE MECHANICAL DRAWINGS.
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- 21. ALL STRUCTURES, PUBLIC AND PRIVATE, SHALL BE ADJUSTED TO PROPOSED GRADES WHERE REQUIRED. THE REQUIREMENTS OF ALL OWNERS MUST BE COMPLIED WITH. STRUCTURES BEING RESET TO PAVED AREAS MUST MEET OWNERS REQUIREMENTS FOR TRAFFIC LOADING.
- 22. CONTRACTOR SHALL COORDINATE ALL WORK WITH PRIVATE UTILITY COMPANIES.
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- 25. ALL JOINTS AND CONNECTIONS IN STORM SEWER SYSTEM SHALL BE GASTIGHT OR WATERTIGHT. APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES, CATCHBASINS, OR OTHER STRUCTURES.
- 26. ALL PORTIONS OF THE STORM SEWER SYSTEM LOCATED WITHIN 10 FEET OF THE BUILDING OR WATER SERVICE LINE MUST BE TESTED IN ACCORDANCE WITH MN RULES, CHAPTER 4714, SECTION 1109.0.

UTILITY LEGEND:

Know what's below. Call before you dig. CATCH BASIN

GATE VALVE AND VALVE BOX

PROPOSED FIRE HYDRANT

FES AND RIP RAP

MANHOLE

______ STORM SEWER

27. FOR ALL SITES LOCATED IN CLAY SOIL AREAS, DRAIN TILE MUST BE INSTALLED AT ALL LOW POINT CATCH BASINS 25' IN EACH DIRECTION. SEE PLAN AND DETAIL. INSTALL LOW POINT DRAIN TILE PER PLANS AND GEOTECHNICAL REPORT RECOMMENDATIONS AND REQUIREMENTS.

CITY OF EDINA UTILITY NOTES:

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- 2. DISCONNECTED SANITARY AND WATER SERVICES TO BE CAPPED AT MAIN.

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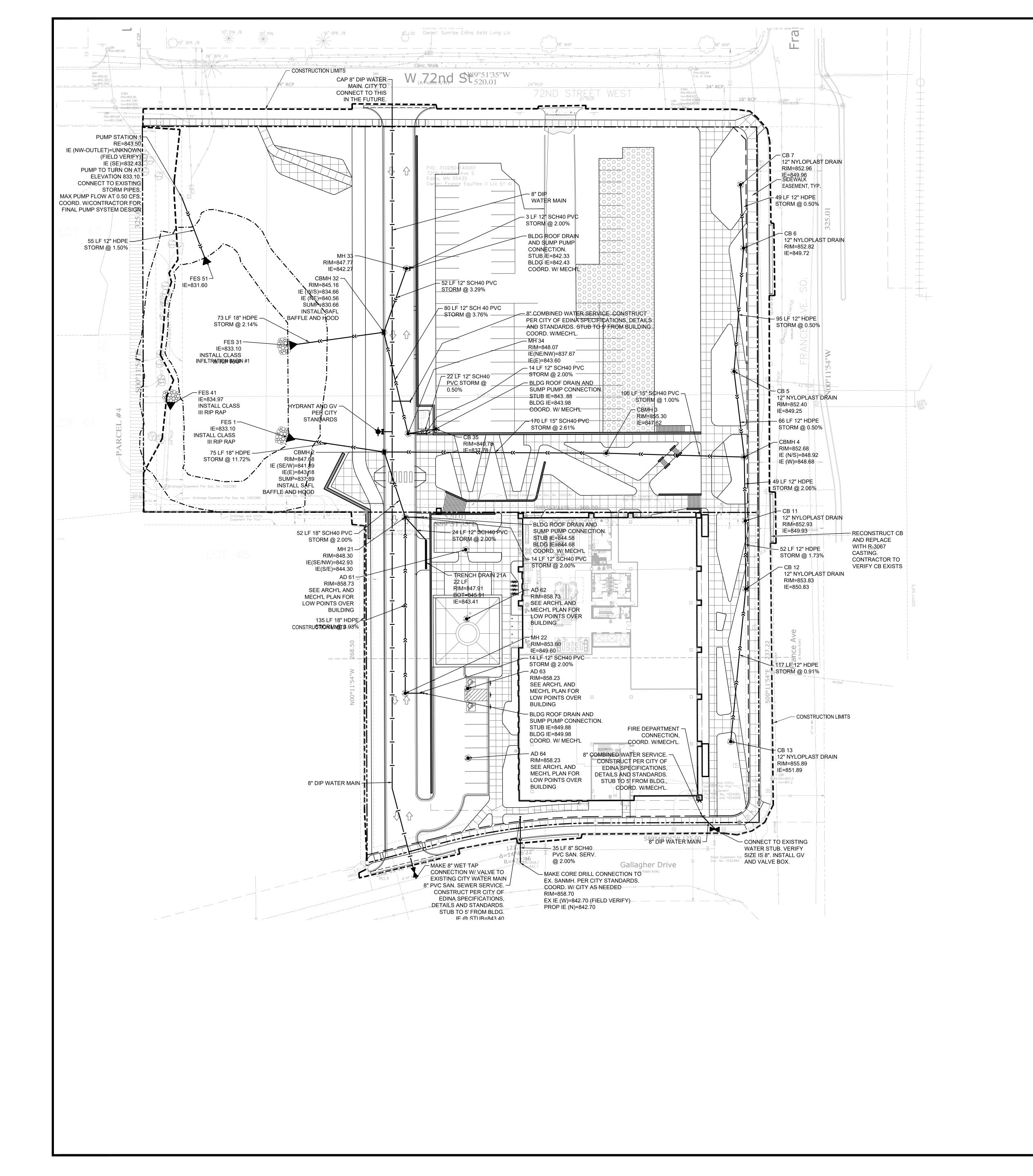
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF

MINNESOTA. Janiel J Knoeble David J. Knaeble

DATE 1/10/23 LICENSE NO. 48776 ISSUE/SUBMITTAL SUMMARY DATE DESCRIPTION 06/30/2022 CITY SUBMITTAL 8/12/2022 PUD SUBMISSION 1/10/23 FINAL PUD SUBMITTAL

DRAWN BY: AM REVIEWED BY: DK PROJECT NUMBER: 21419 REVISION SUMMARY DATE DESCRIPTION

PH. 1 (A) UTILITY PLAN



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Golden Valley, MN 55422

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2

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David J. Knaeble

DATE 1/10/23 LICENSE NO. 48776

ISSUE/SUBMITTAL SUMMARY

DATE DESCRIPTION

06/30/2022 CITY SUBMITTAL

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1/10/23 FINAL PUD SUBMITTAL

PH. 1 (B) UTILITY PLAN

DRAWN BY: AM REVIEWED BY: DK
PROJECT NUMBER: 21419

REVISION SUMMARY

DATE DESCRIPTION

DATE DESCI

Know what's below.

Call before you dig.

UTILITY LEGEND:



FES AND RIP RAP

GATE VALVE AND VALVE BOX

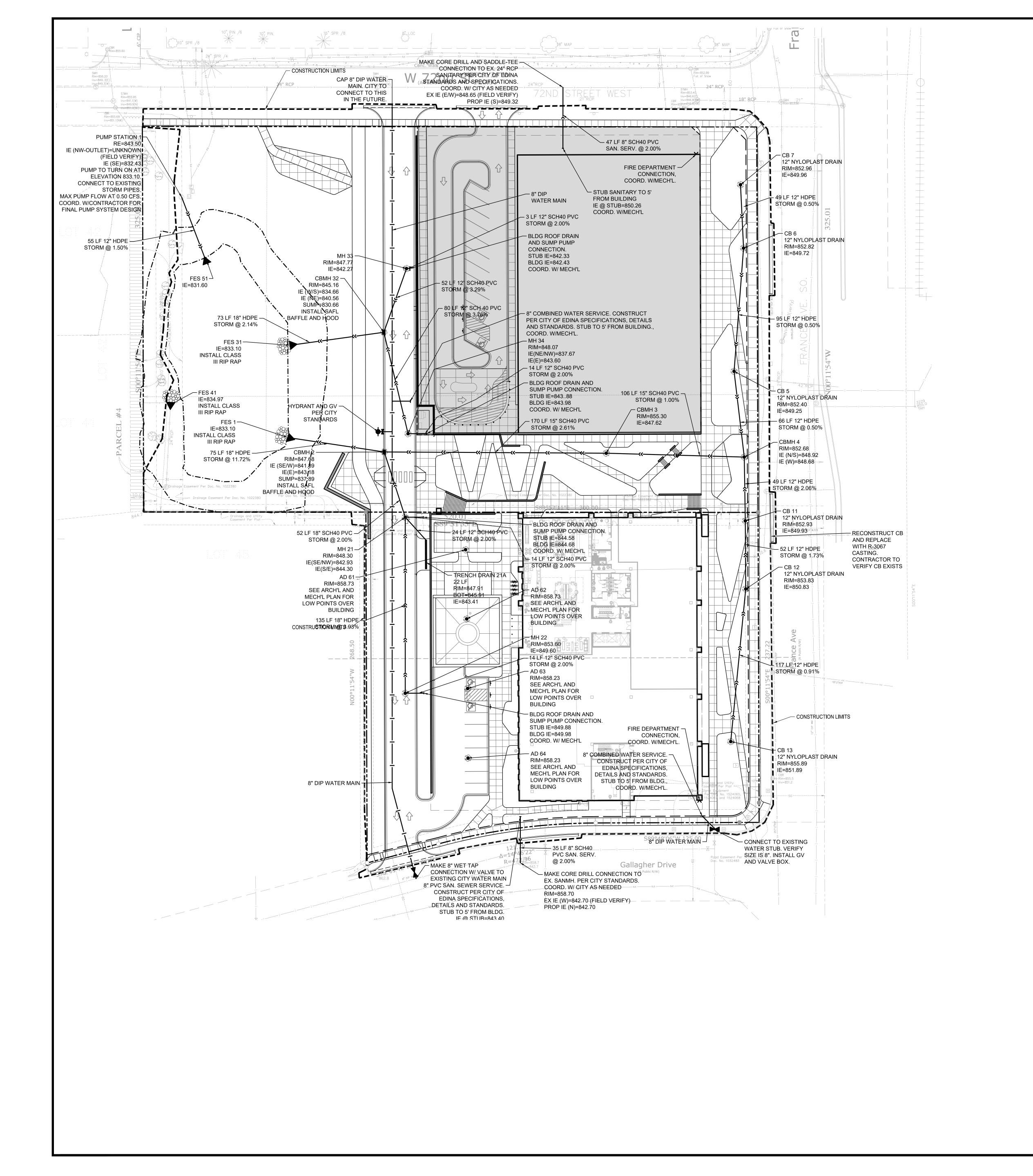
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CATCH BASIN

MANHOLE

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C4.0



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CITY OF EDINA UTILITY NOTES:

1. RESERVED FOR CITY SPECIFIC UTILITY NOTES.

GROUP

5000 Glenwood Avenue

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Golden Valley, MN 55422

2 0 0

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Janiel J Knaeble David J. Knaeble

2

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DRAWN BY: AM REVIEWED BY: DK

PH. 2 UTILITY PLAN

GATE VALVE AND VALVE BOX PROJECT NUMBER: 21419 PROPOSED FIRE HYDRANT REVISION SUMMARY DATE DESCRIPTION

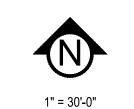
FES AND RIP RAP

PHASE II CONSTRUCTION LIMITS

CATCH BASIN

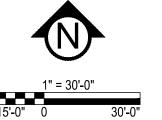
MANHOLE

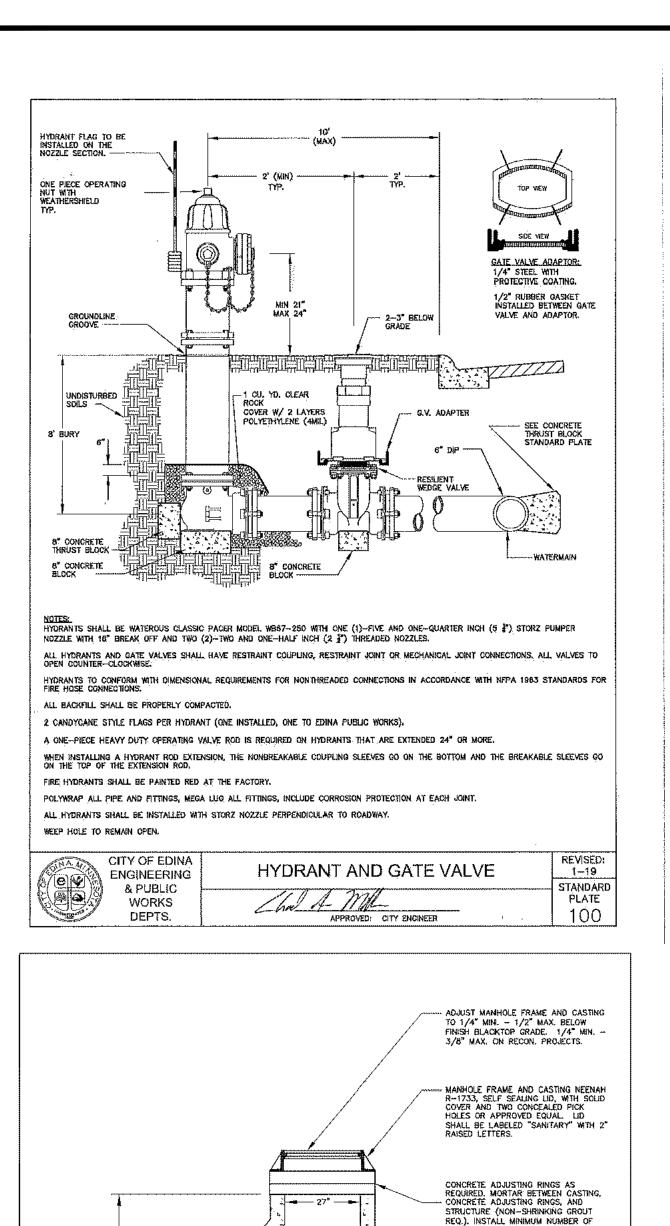
___>> STORM SEWER

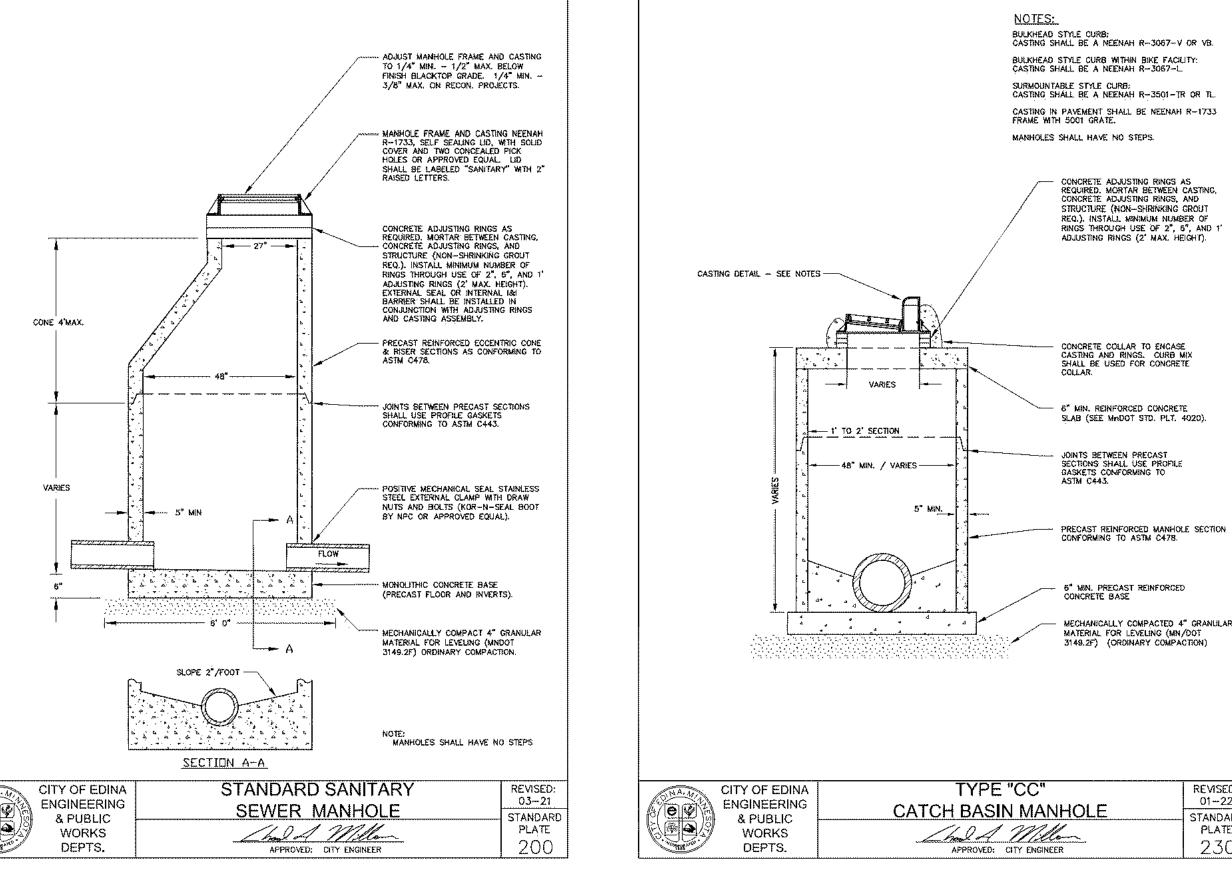


UTILITY LEGEND:

Call before you dig.







8-7/8---

7-5/8--

------ 6-5/8" ----

7-1/8" TOP SECTION

5-3/4"

8-1/8---EXTENSIONS

| -- 7⁻ -- | | -- 6-1/8" --

MIDDLE SECTION

9-7/16*-

7-3/4

8-1/4" -

NO. 6 ROUND BASE

e v

Company of the Company

CITY OF EDINA

& PUBLIC

WORKS

DEPTS.

WATER

7-3/8"--

7-1/8"

ALL BOLTS INCLUDING T-BOLTS SHALL BE COR-BLUE.

OPERATING ROD EXTENSION SHALL BE INSTALLED ON ALL GATE VALVES DEEPER THAN 9'.

GATE VALVE AND BOX SHALL BE STRAIGHT

PROTECTO CAP -

B" CONCRETE BLOCK ----

GATE VALVE AND BOX

APPROVED: CITY ENGINEER

Shoul A. Mik

TYLER (NO. 58, 59 & 60) MUELLER (NO. 58 & 59) OR APPROVED EQUAL

5-3/4"

1/2" RUBBER GASKET INSTALLED BETWEEN GATE VALVE AND ADAPTOR.

ADJUST TOP TO 1/4" BELOW BLACKTOP GRADE OR 1" BELOW FINISHED BOULEVARD GRADE AND SHALL BE SET SO AS TO PROVIDE 12" OF UPWARD ADJUSTMENT.

GATE VALVE BOX, SCREW TYPE, THREE PIECE, 5 1/4" SHAFT, SIZE G BOX 7"-6" EXTENDED NO. 6 ROUND BASE

SHALL BE: TYLER SERIES NO. 6860 MUELLER NO. H-10357 OR APPROVED EQUAL.

G.V. ADAPTOR AS
MANUFACTURED BY ADAPTOF
INC. OR APPROVED EQUAL.
SEE ABOVE DETAIL

STANDARD

PLATE

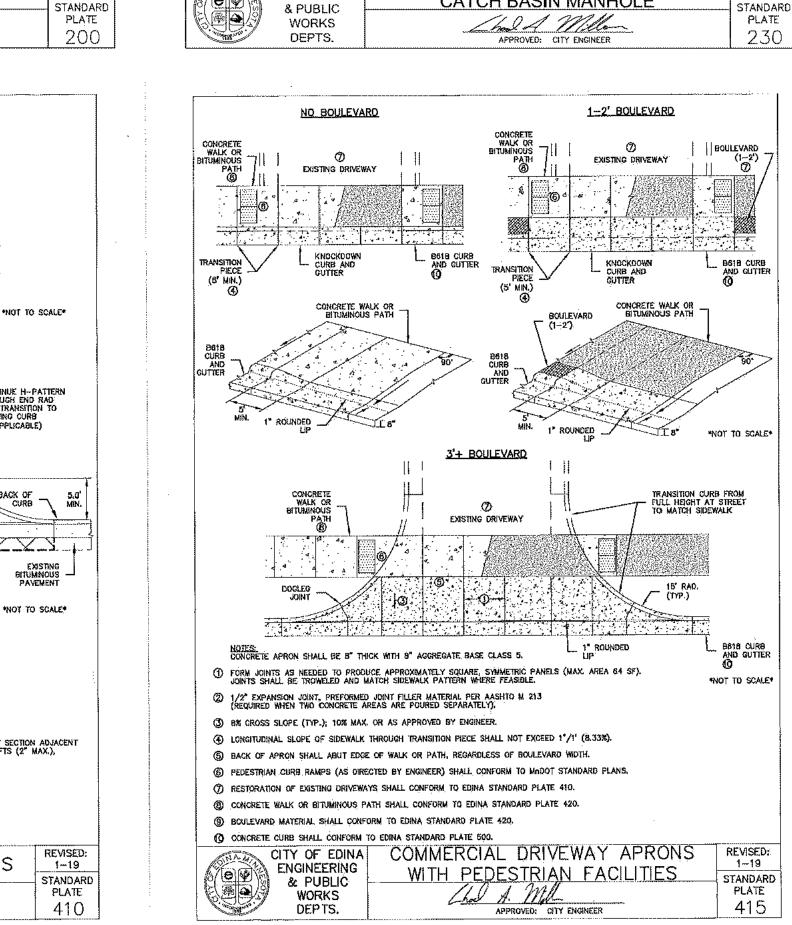
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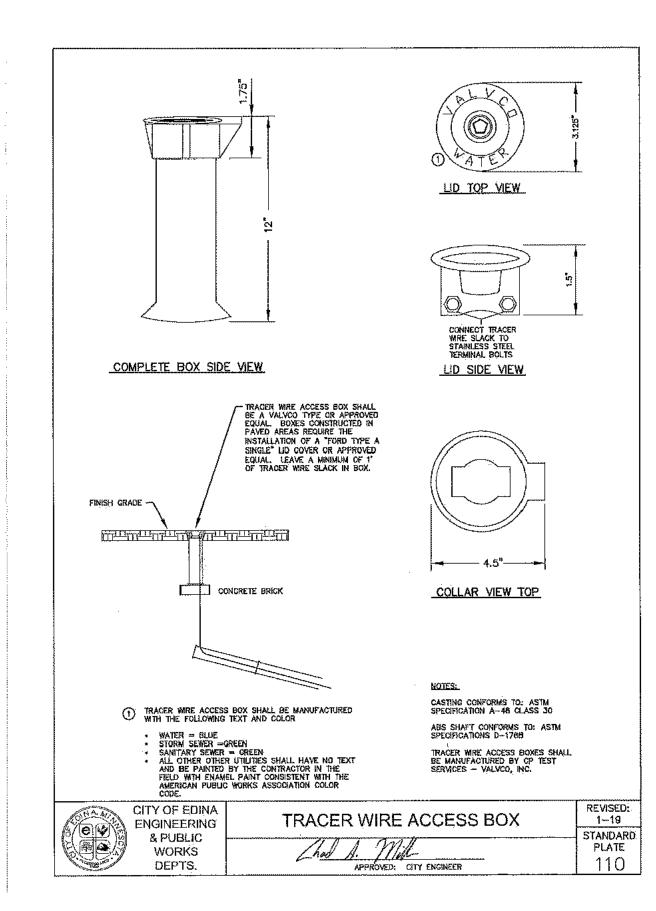
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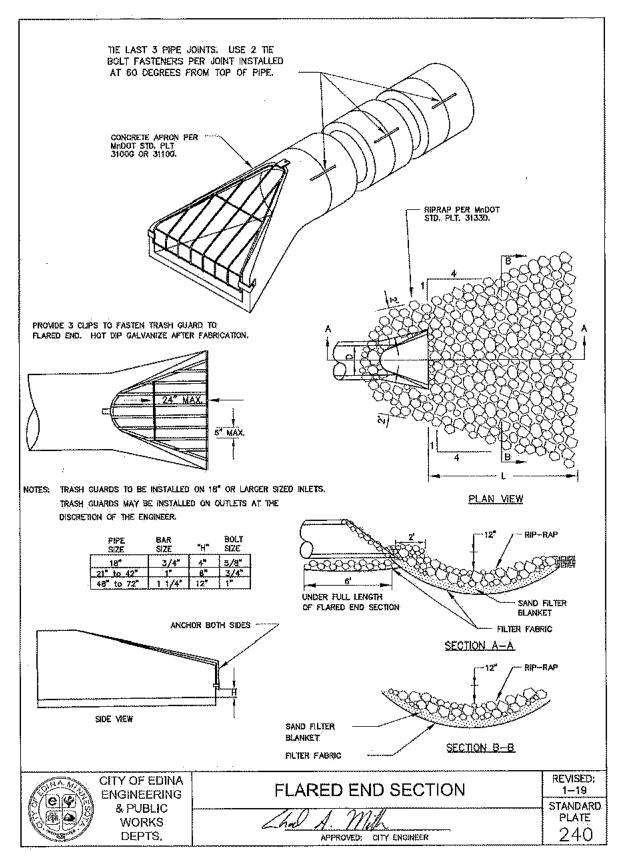
6" MIN. PRECAST REINFORCED CONCRETE BASE

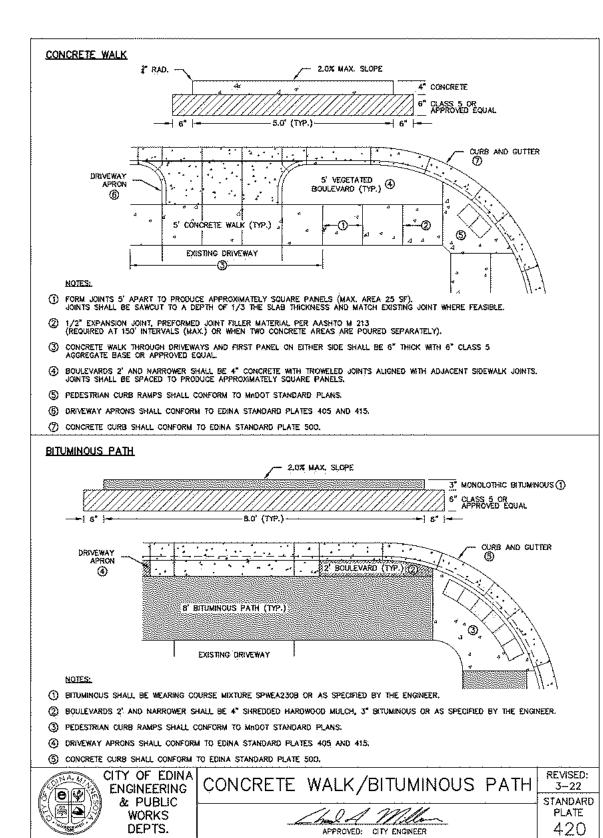
MECHANICALLY COMPACTED 4" GRANULAR

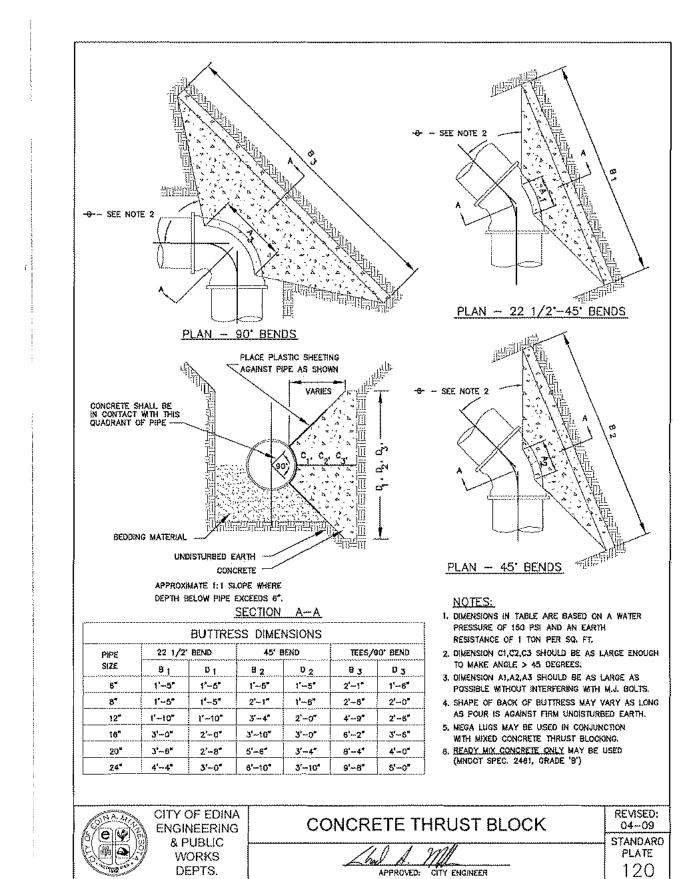
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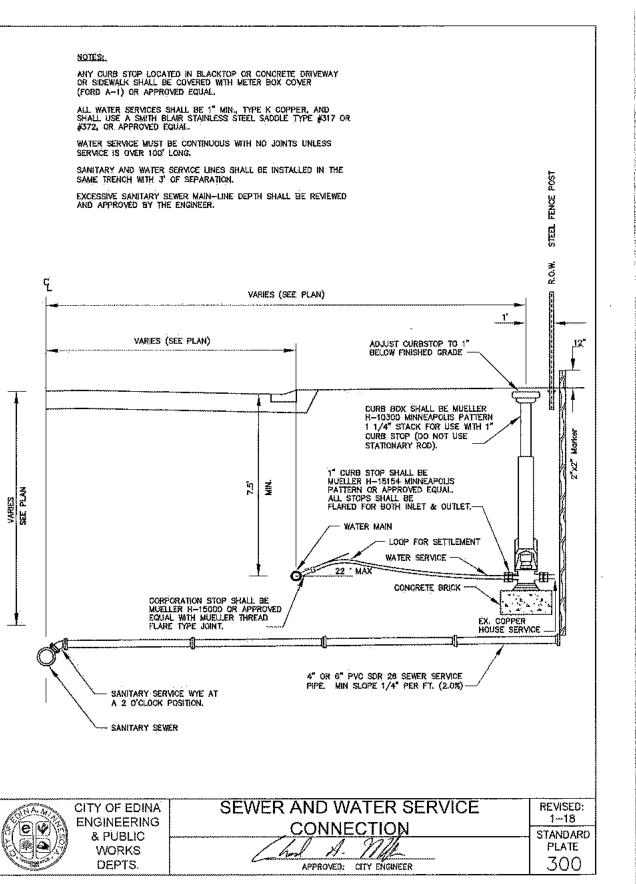


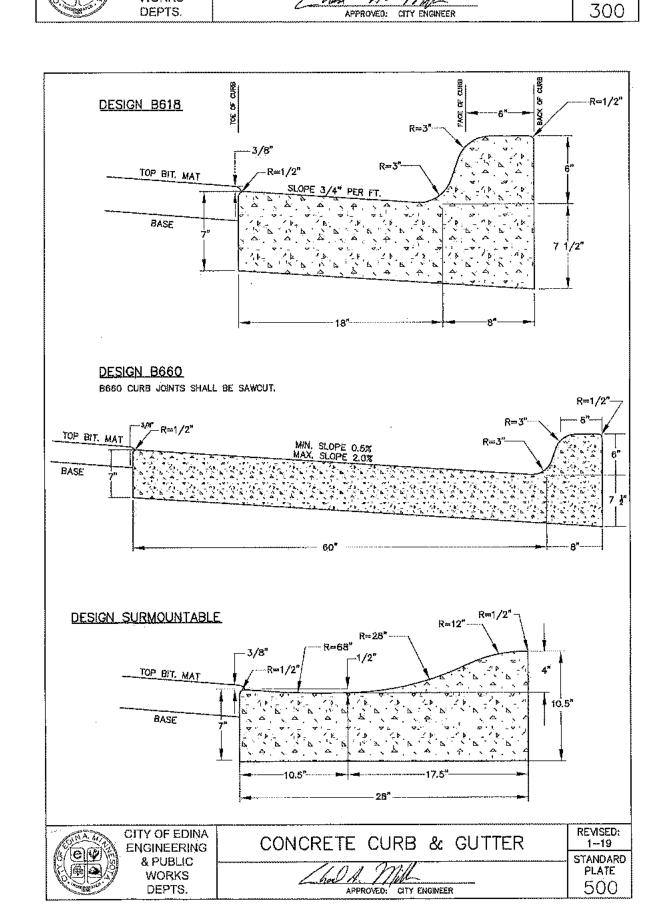


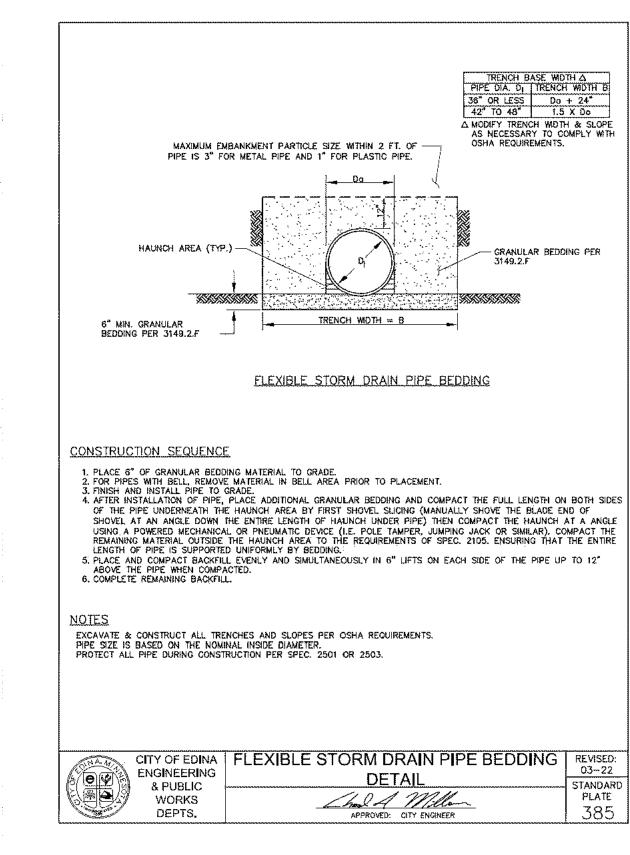


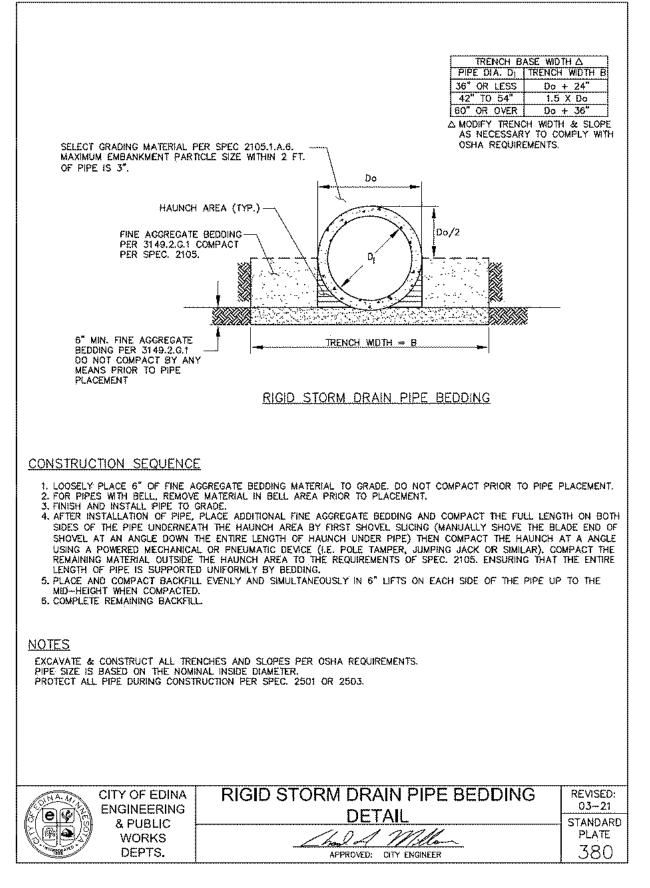


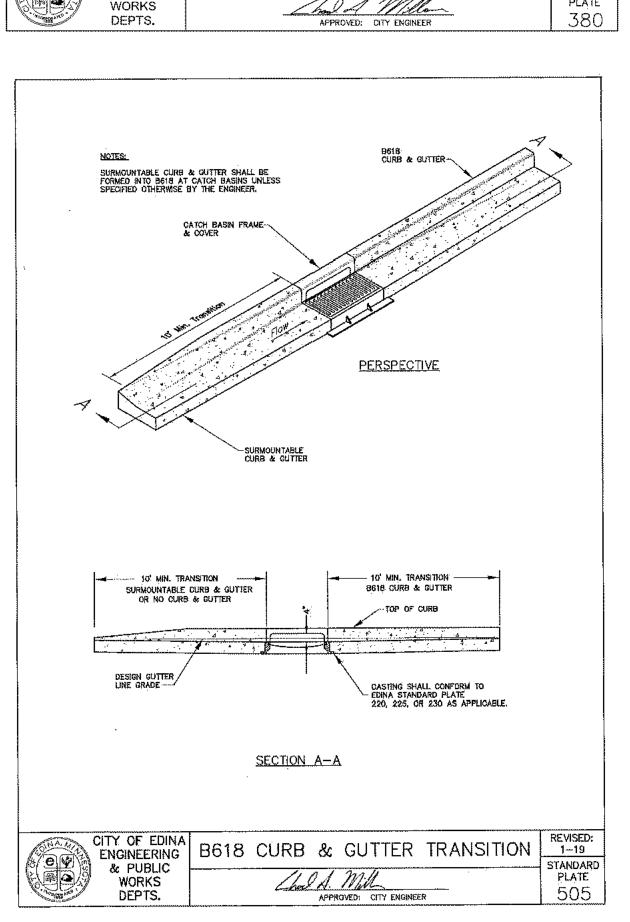


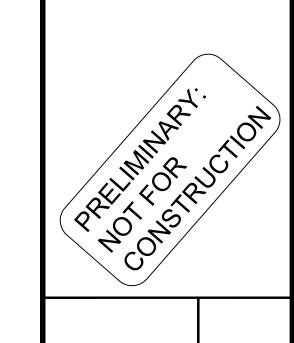












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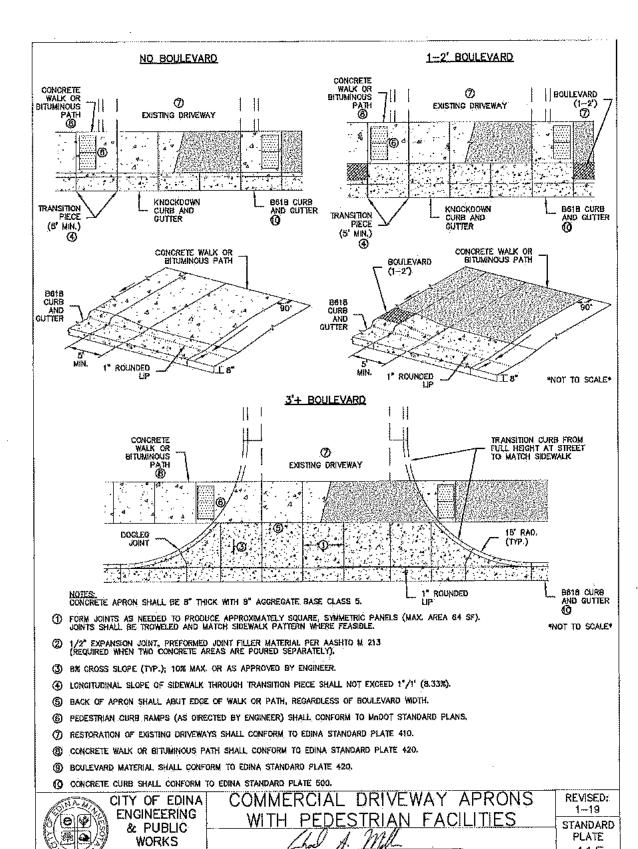
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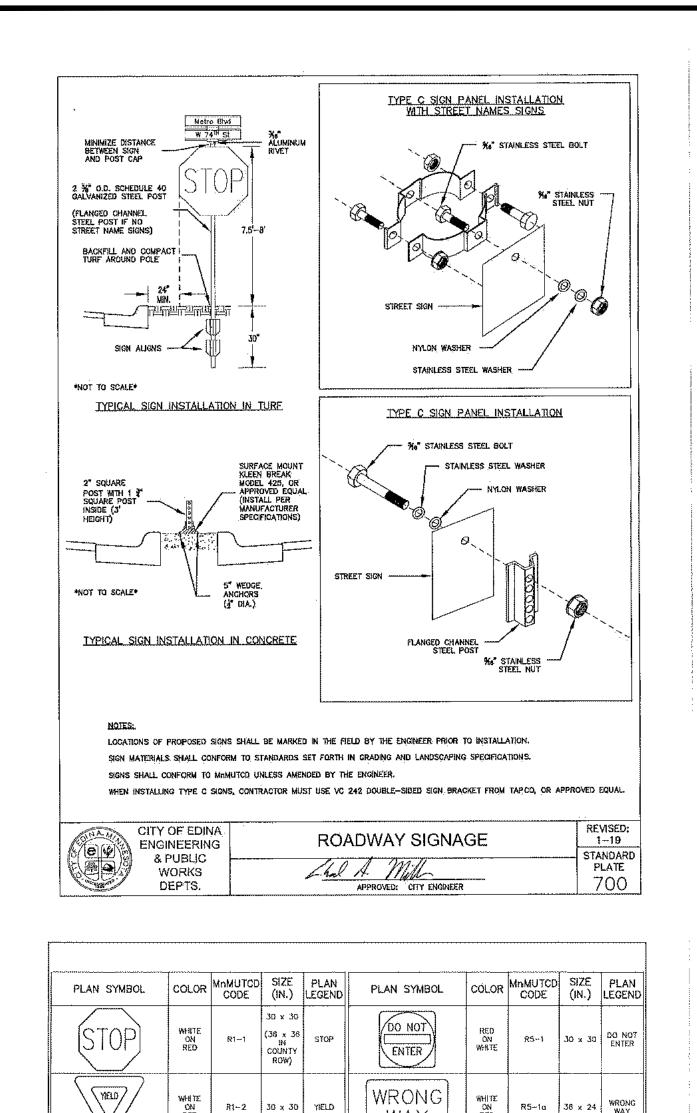
0 0 0 2 I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY ME OR UNDER MY DIREC SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. Janil J Knaeble David J. Knaeble

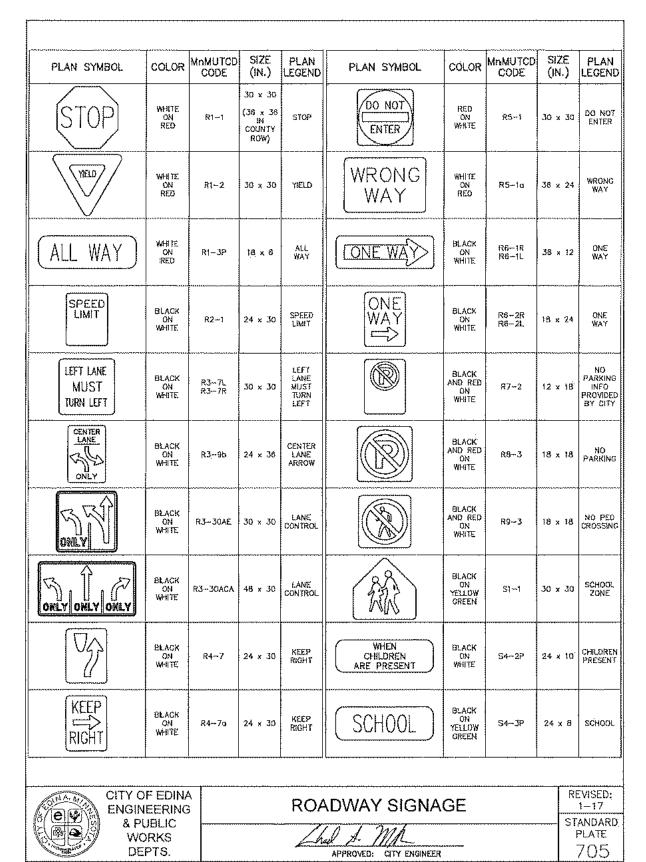
DATE 1/10/23 LICENSE NO. 48776 ISSUE/SUBMITTAL SUMMARY DATE DESCRIPTION 06/30/2022 CITY SUBMITTAL 8/12/2022 PUD SUBMISSION 1/10/23 FINAL PUD SUBMITTAL RAWN BY: AM REVIEWED BY: DK ROJECT NUMBER: 21419 **REVISION SUMMARY** DATE DESCRIPTION CIVIL DETAILS

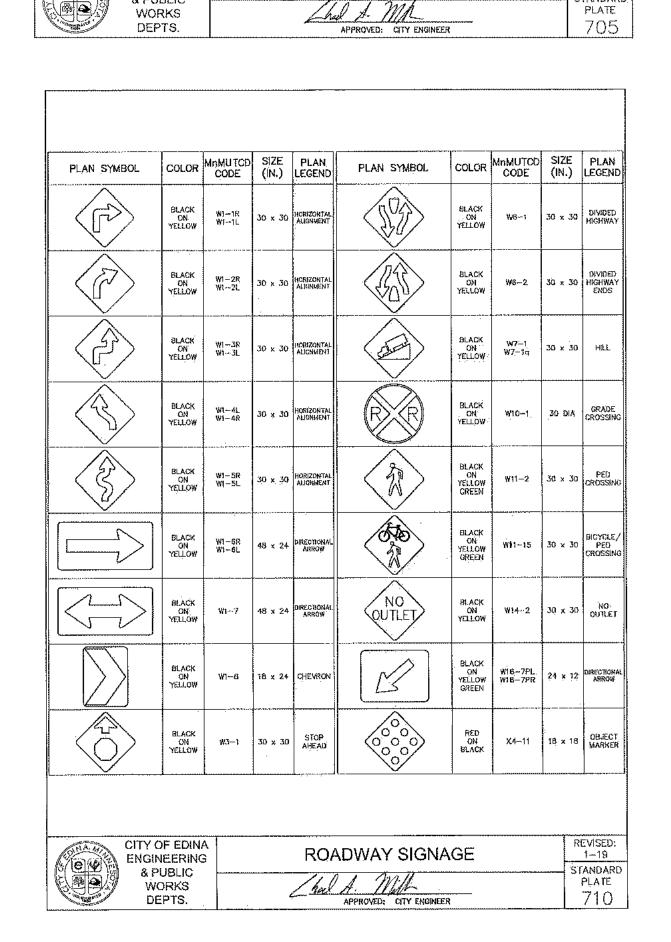
NOT TO SCALE 1" ROUNDED LIP ---- SAWOUT LINE *NOT TO SCALE! CONCRETE APRON SHALL BE 8" THICK WITH 8" AGGREGATE BASE CLASS 5. 1 50 MINIMUM BETWEEN END OF CURB RETURN AND INTERSECTION RETURN. ② FORM JOINTS AS NEEDED TO PRODUCE APPROXIMATELY SQUARE, SYMMETRIC PANELS (MAX. AREA 64 SF). JOINTS SHALL BE TROWELED AND MATCH EXISTING DRIVEWAY PATTERN WHERE FEASIBLE. (3) IF ROADWAY PAVEMENT IS DAMAGED DURING CONSTRUCTION, CONTRACTOR SHALL SAWCUT 18" STRIP OF STREET SECTION ADJACENT TO NEW APRON AND PATCH WITH TYPE SP9.5 WEARING COURSE MIXTURE (SPWEAJ408), PLACED IN MULTIPLE LIFTS (2" MAX.), MATCHING EXISTING PAVEMENT THICKNESS. (4) RESTORATION OF DRIVEWAY SHALL MATCH EXISTING THICKNESS (8" MIN. FOR CONCRETE; 4" MIN. FOR BITUMINOUS, PLACED IN TWO 2" LIFTS). (5) 14% MAX. OR AS APPROVED BY THE ENGINEER. CITY OF EDINA ENGINEERING & PUBLIC WORKS DEPTS. COMMERCIAL DRIVEWAY APRONS

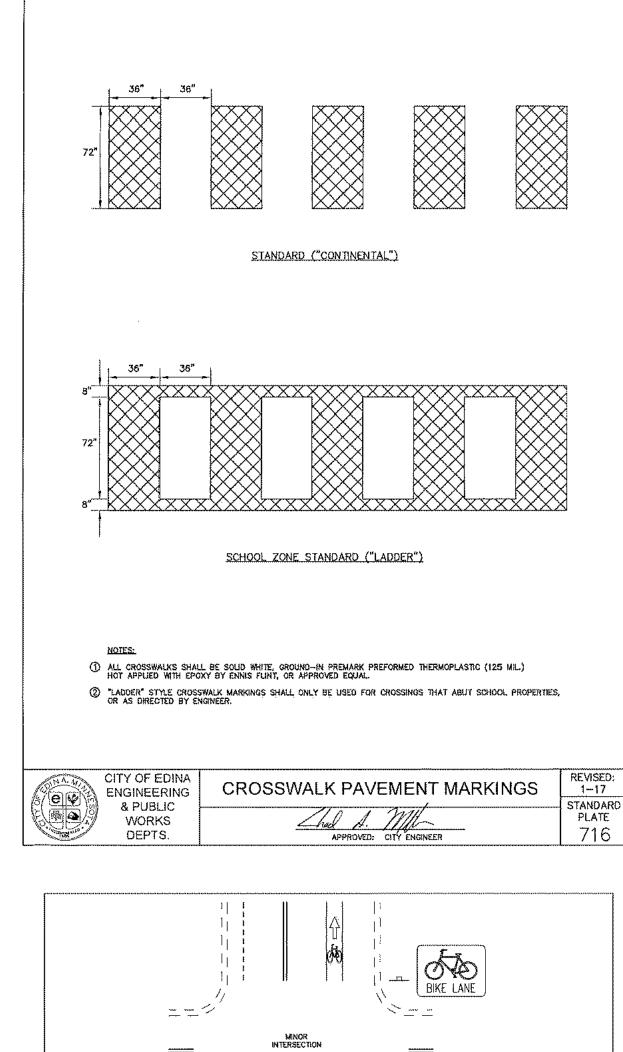
DRIVEWAY WIDTH REGULATIONS

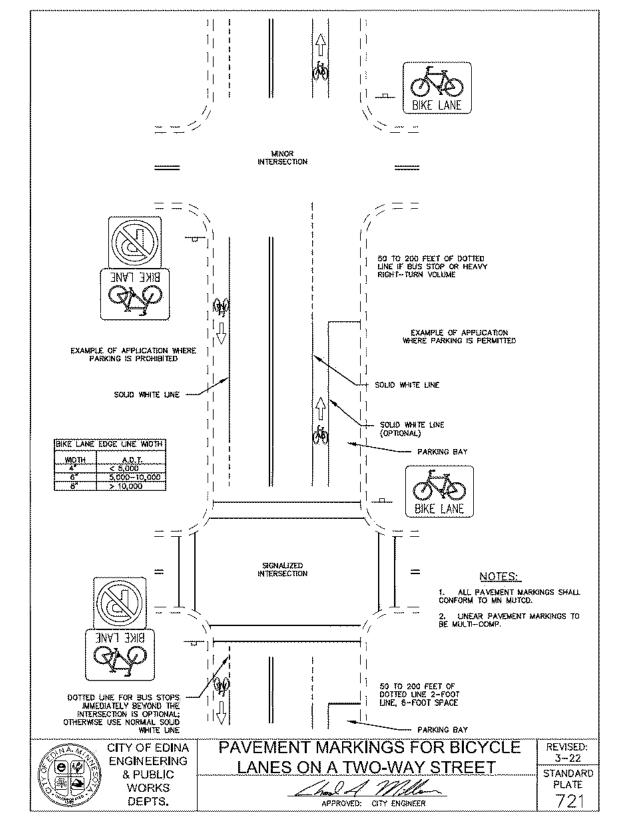


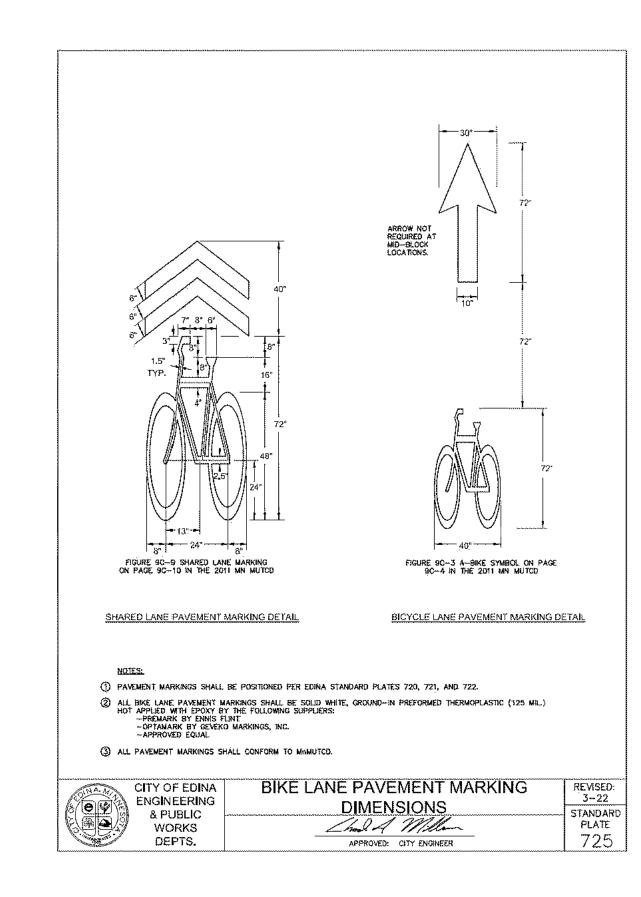


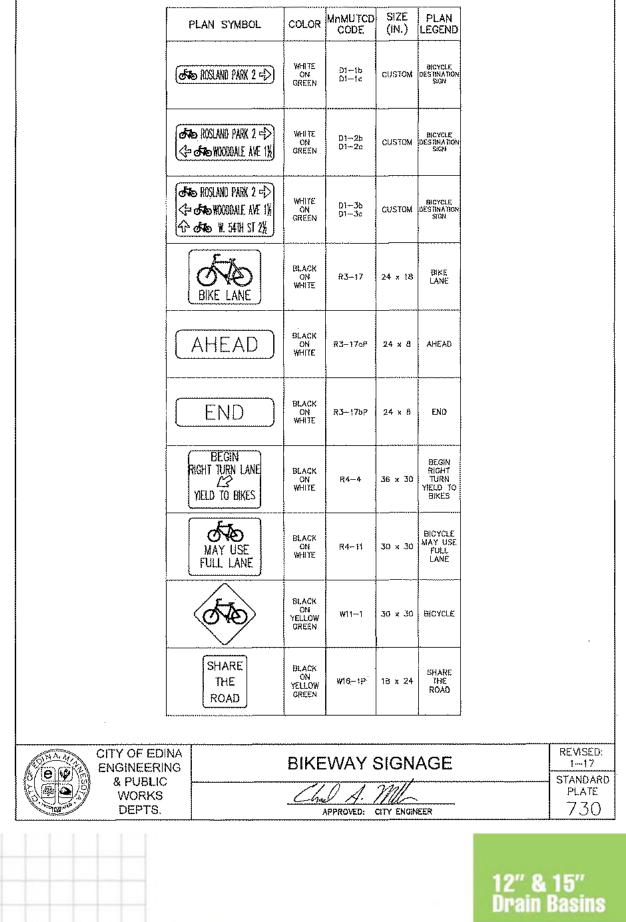


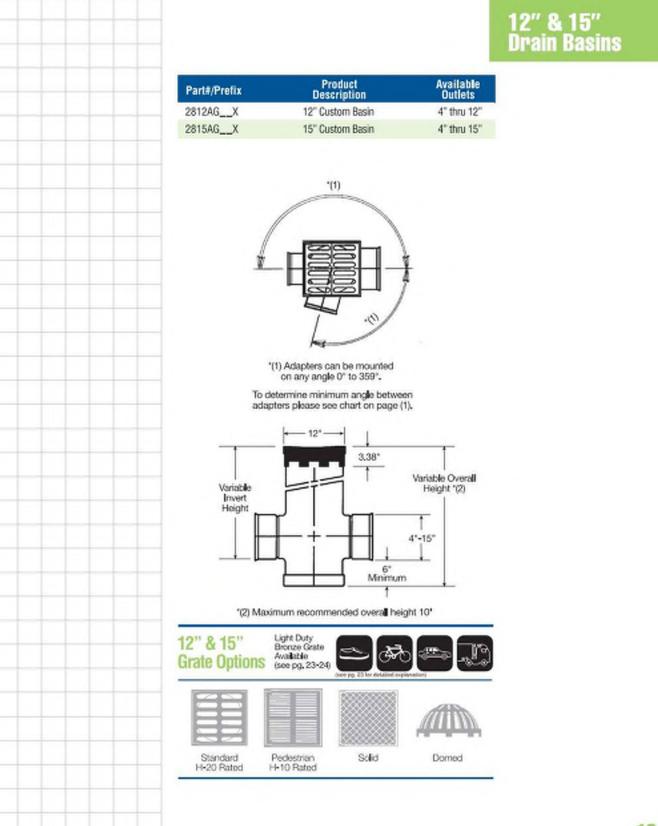


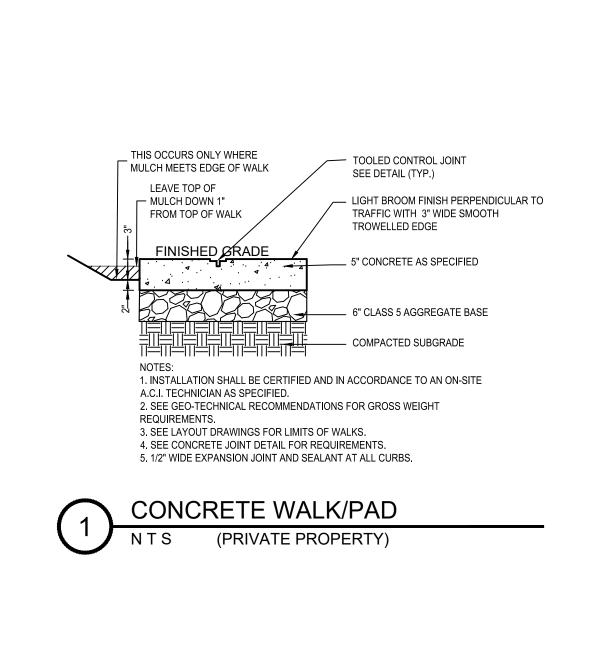


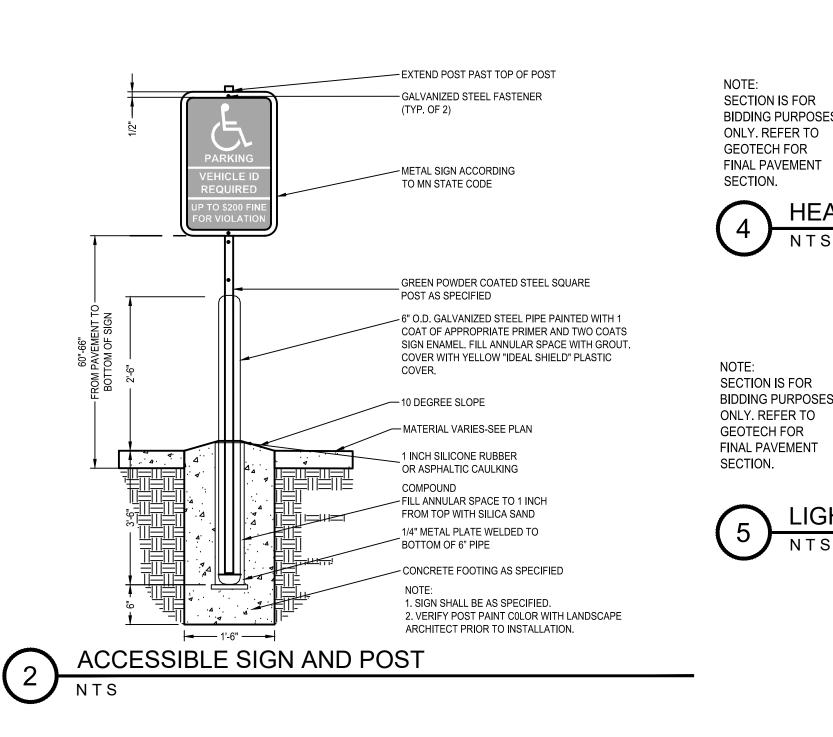








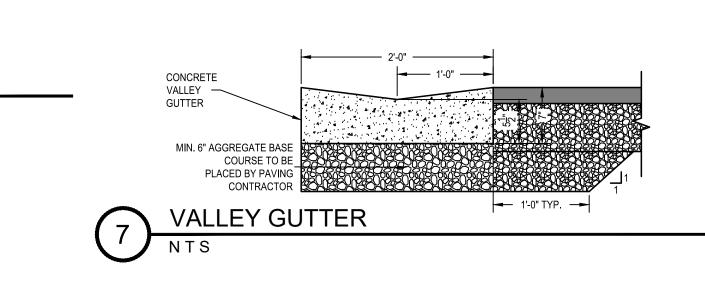


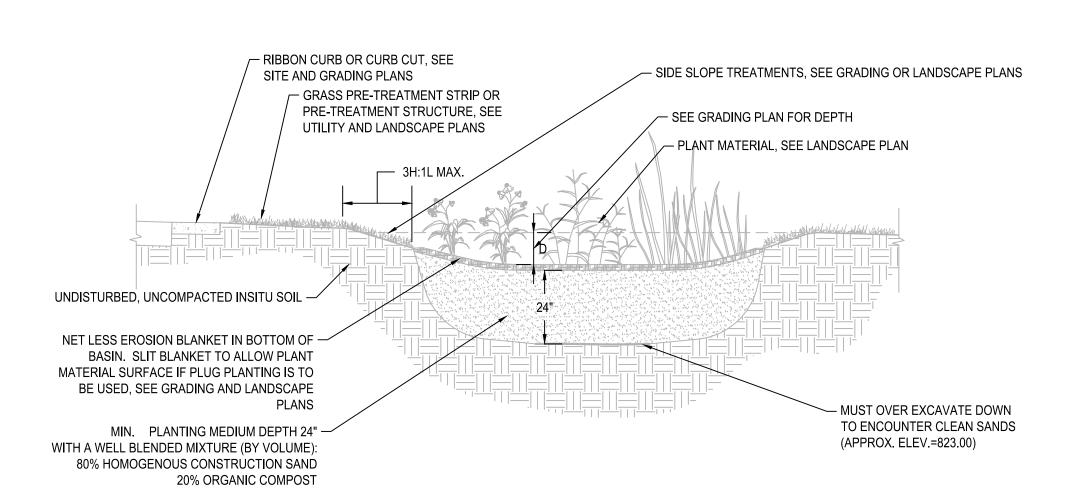


CASTING SCHEDULE		
CATCH BASIN/MANHOLE/RISER	GRATE TYPE (NEENAH)	REMARKS
2, 22, 31-39	R-3067-C (V GRATE)	STORM CURB INLET
3, 4, 31	R-2501	STORM AREA DRAIN INLET
23, 24, 41, 42	R-1642	STORM MANHOLE

. CASTINGS SHALL BE NEENAH FOUNDRY CASTINGS OR APPROVED EQUIVALENT. 2. CASTINGS SHALL BE STAMPED WITH APPROPRIATE UTILITY NAME ("STORM SEWER", "SANITARY SEWER")

CASTING SCHEDULE





TYPICAL SECTION VIEW



- 1. INSTALL SILT FENCE AND/OR OR OTHER APPROPRIATE TEMPORARY EROSION CONTROL DEVICES TO PREVENT SEDIMENT FROM LEAVING OR ENTERING THE PRACTICE DURING CONSTRUCTION.
- 2. ALL DOWN-GRADIENT PERIMETER SEDIMENT CONTROL BMP'S MUST BE IN PLACE BEFORE ANY UP GRADIENT LAND DISTURBING ACTIVITY BEGINS. 3. PERFORM CONTINUOUS INSPECTIONS OF EROSION CONTROL PRACTICES.
- 4. INSTALL UTILITIES (WATER, SANITARY SEWER, ELECTRIC, PHONE, FIBER OPTIC, ETC) PRIOR TO SETTING FINAL GRADE OF BIORETENTION DEVICE.
- 5. ROUGH GRADE THE SITE. IF BIORETENTION AREAS ARE BEING USED AS TEMPORARY SEDIMENT BASINS LEAVE A MINIMUM OF 3 FEET OF COVER OVER THE PRACTICE TO PROTECT THE UNDERLYING SOILS FROM
- CLOGGING. 6. PERFORM ALL OTHER SITE IMPROVEMENTS.
- 7. PLANT ALL AREAS AFTER DISTURBANCE. 8. CONSTRUCT BIORETENTION DEVICE UPON STABILIZATION OF CONTRIBUTING DRAINAGE AREA.
- 9. IMPLEMENT TEMPORARY AND PERMANENT EROSION CONTROL PRACTICES. 10. PLANT AND/OR ROCK MULCH BIORETENTION DEVICE.
- 11. REMOVE TEMPORARY EROSION CONTROL DEVICES AFTER THE CONTRIBUTING DRAINAGE AREA IS ADEQUATELY VEGETATED.

BIO-INFILTRATION BASIN (RAIN GARDEN - TYP.)

- 1. IN THE EVENT THAT SEDIMENT IS INTRODUCED INTO THE BMP DURING OR IMMEDIATELY FOLLOWING EXCAVATION, THIS MATERIAL SHALL BE REMOVED FROM THE PRACTICE PRIOR TO CONTINUING CONSTRUCTION.
- 2. GRADING OF BIORETENTION DEVICES SHALL BE ACCOMPLISHED USING LOW-COMPACTION EARTH-MOVING EQUIPMENT TO PREVENT COMPACTION OF UNDERLYING SOILS.
- 3. ALL SUB MATERIALS BELOW THE SPECIFIED BIORETENTION DEPTH (ELEVATION) SHALL BE UNDISTURBED,

UNLESS OTHERWISE NOTED.

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- 2" WEAR COURSE (MNDOT 2360 - SPWEA340B)

2" BASE COURSE (MNDOT 2360 - SPNWB330B

COMPACTED SUBGRADE (100% OF STANDARD

— 1.5" WEAR COURSE (MNDOT 2360 - SPWEA340B)

2" BASE COURSE (MNDOT 2360 - SPNWB330B)

- COMPACTED SUBGRADE (100% OF STANDARD

-SLOPE GUTTER 3/4"/1'

-PAVEMENT MATERIALS

AND GUTTER

—CONTINUOUS SLOPE CONCRETE CURB

PROCTOR MAXIMUM DRY DENSITY)

PROCTOR MAXIMUM DRY DENSITY)

TACK COAT (MNDOT 2357)

8" CLASS 5 AGGREGATE

SUBBASE (MNDOT 3138)

TACK COAT (MNDOT 2357)

6" CLASS 5 AGGREGATE

SUBBASE (MNDOT 3138)

HEAVY DUTY BITUMINOUS PAVEMENT

LIGHT DUTY BITUMINOUS PAVEMENT

1. INSTALL CONSTRUCTION JOINTS AT 10'-0" O.C. +/-

2. BASE DEPTH DEPENDANT UPON SOIL CONDITIONS

SECTION IS FOR

ONLY. REFER TO

FINAL PAVEMENT

GEOTECH FOR

GEOTECH FOR

FINISHED GRADE

BIDDING PURPOSES

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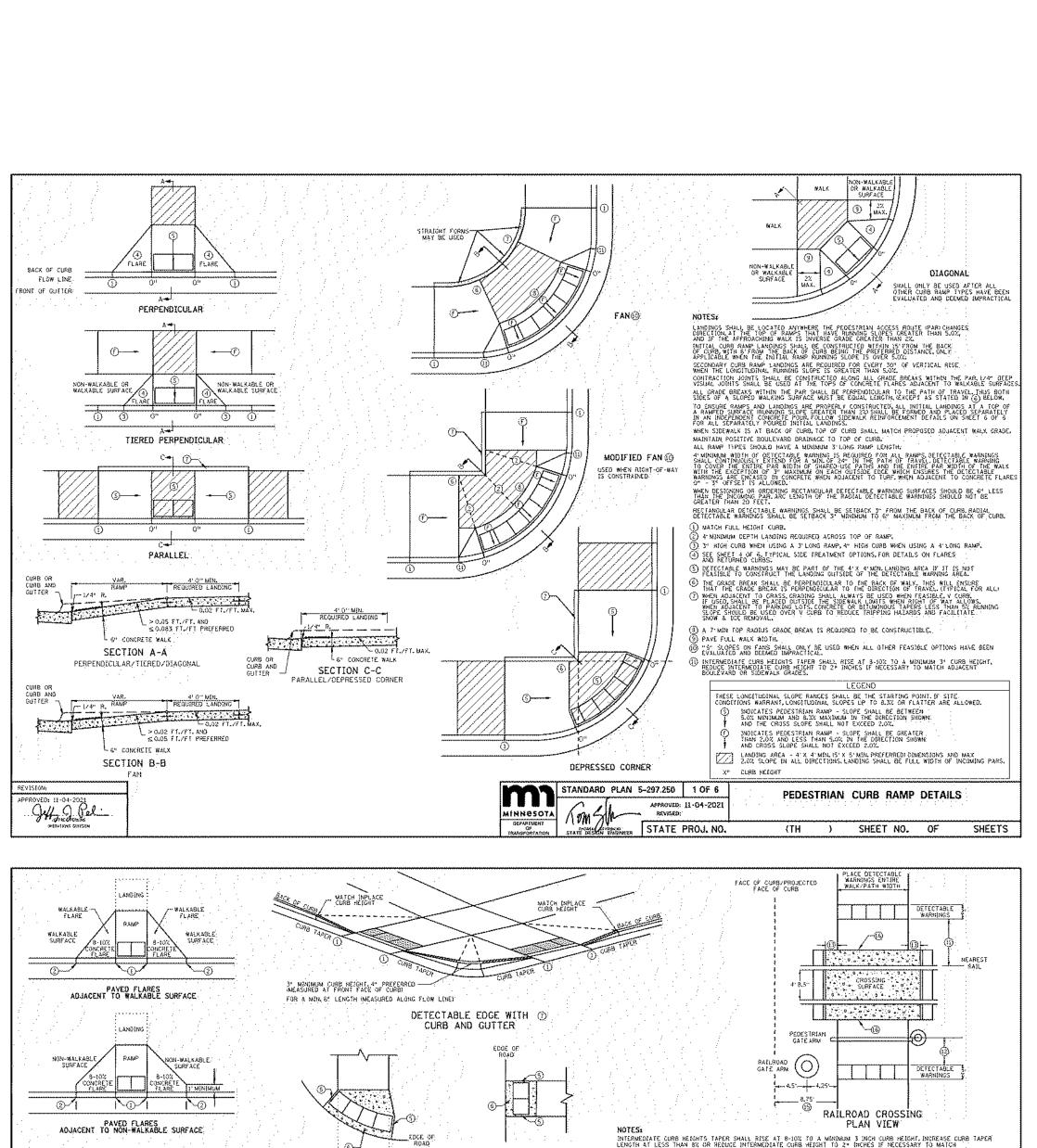
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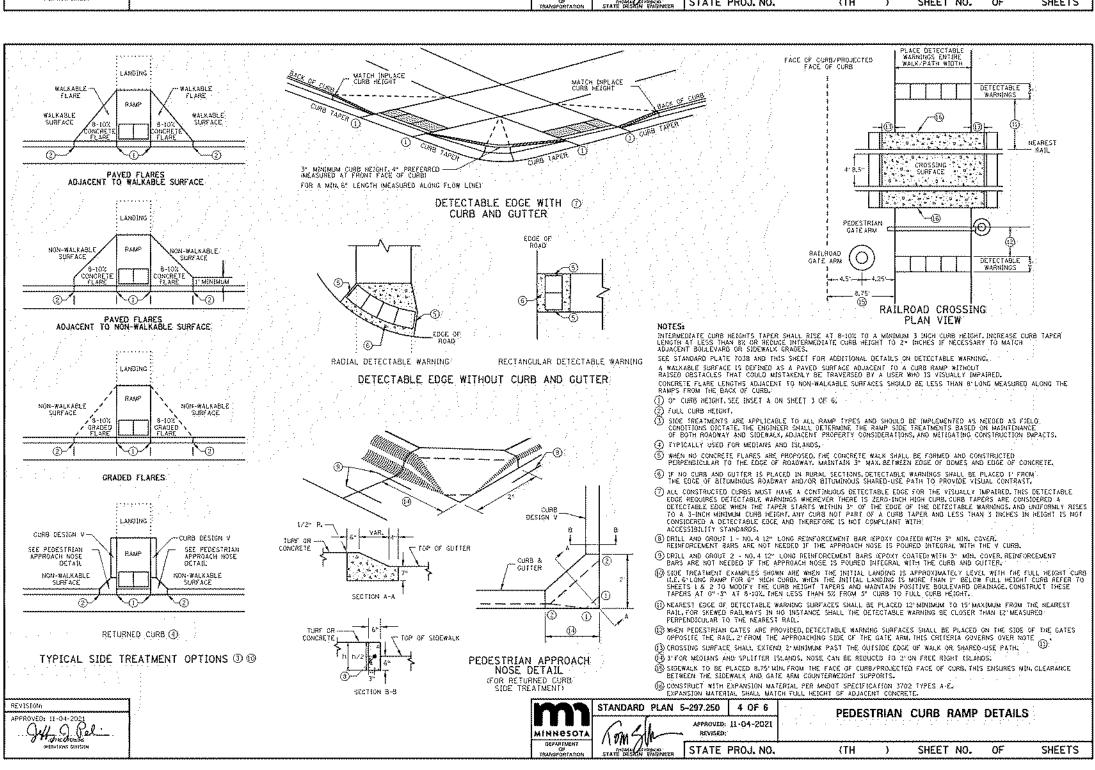
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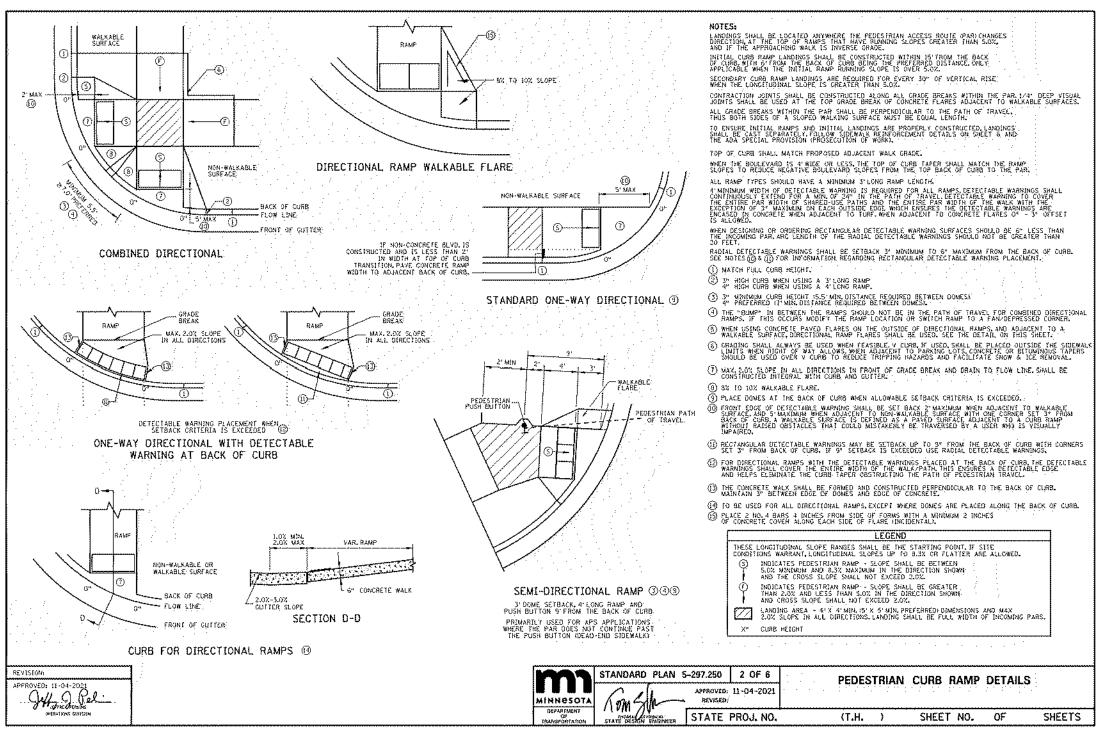
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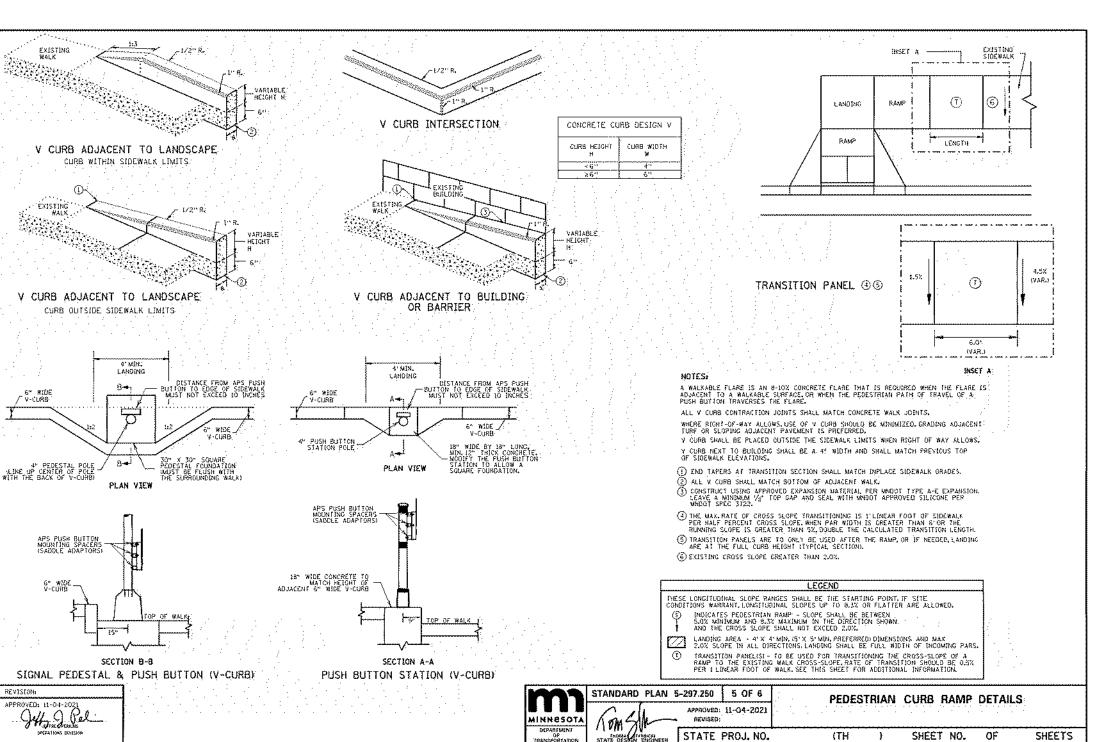
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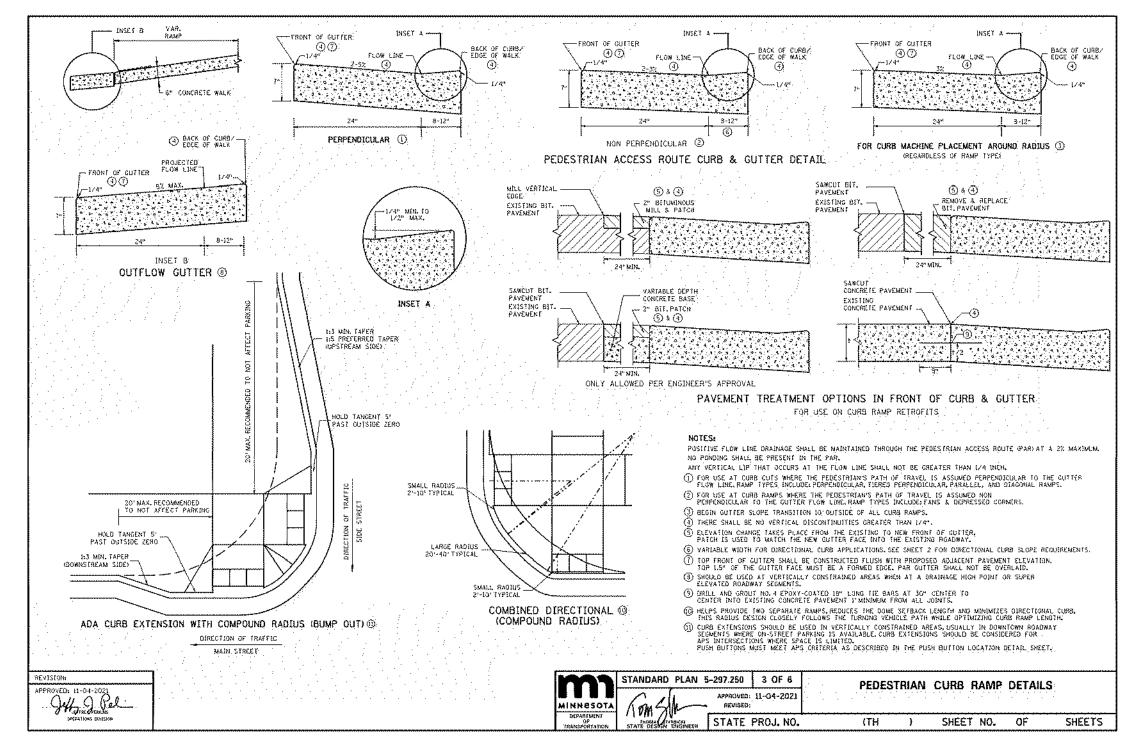
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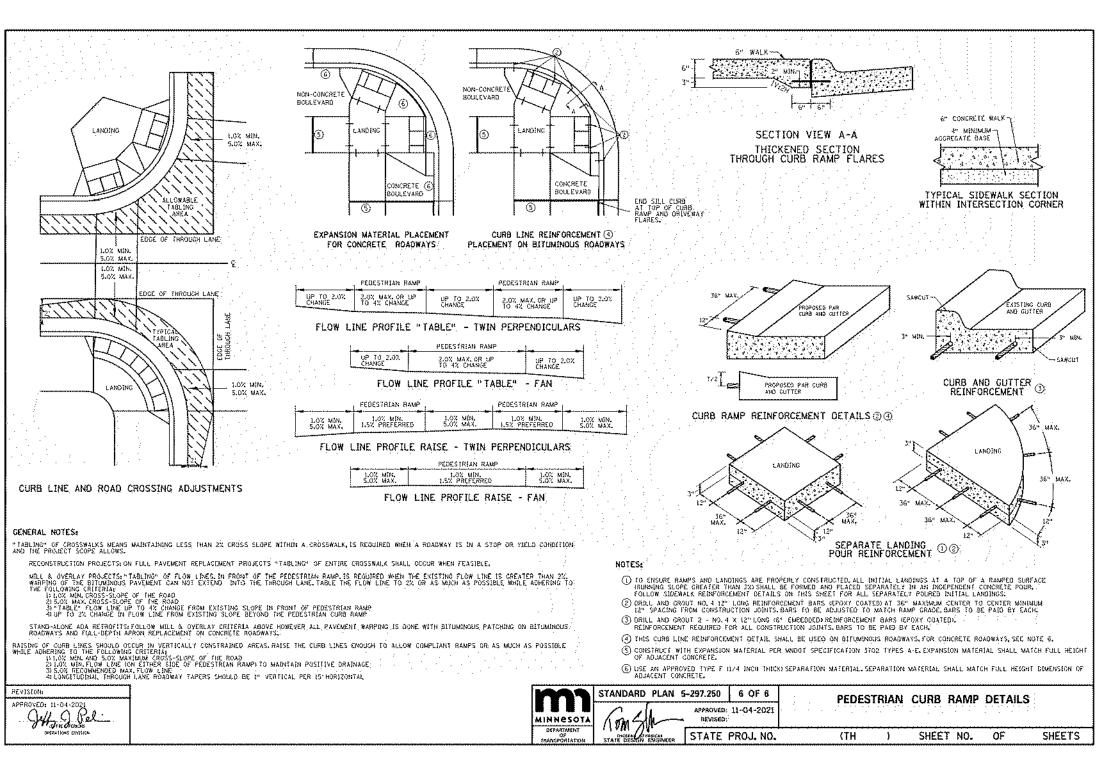


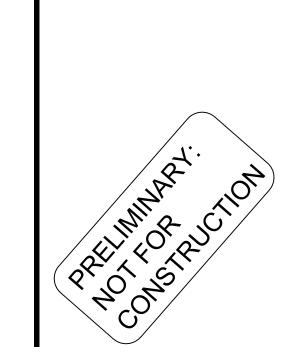












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Tanil J Kneble

David J. Knaeble

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DRAWN BY: AM

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REVIEWED BY: DK

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