

NOTES:

1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
4. BOTTOM HYDRANT FLANGE SHALL BE 2" TO 6" ABOVE FINISHED GRADE.
5. FOR STREETS WITHOUT CURBS FIRE HYDRANTS SHALL BE PLACED WITHIN 1 FOOT OF THE R/W LINE, BUT NOT MORE THAN 10' FROM EDGE OF PAVEMENT. FIRE HYDRANT SHALL NOT BE PLACED IN BOTTOM OF DITCH.
6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

LS

LEE'S SUMMIT

MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

HYDRANT WITH 90 DEGREE BEND

Date: 02/13

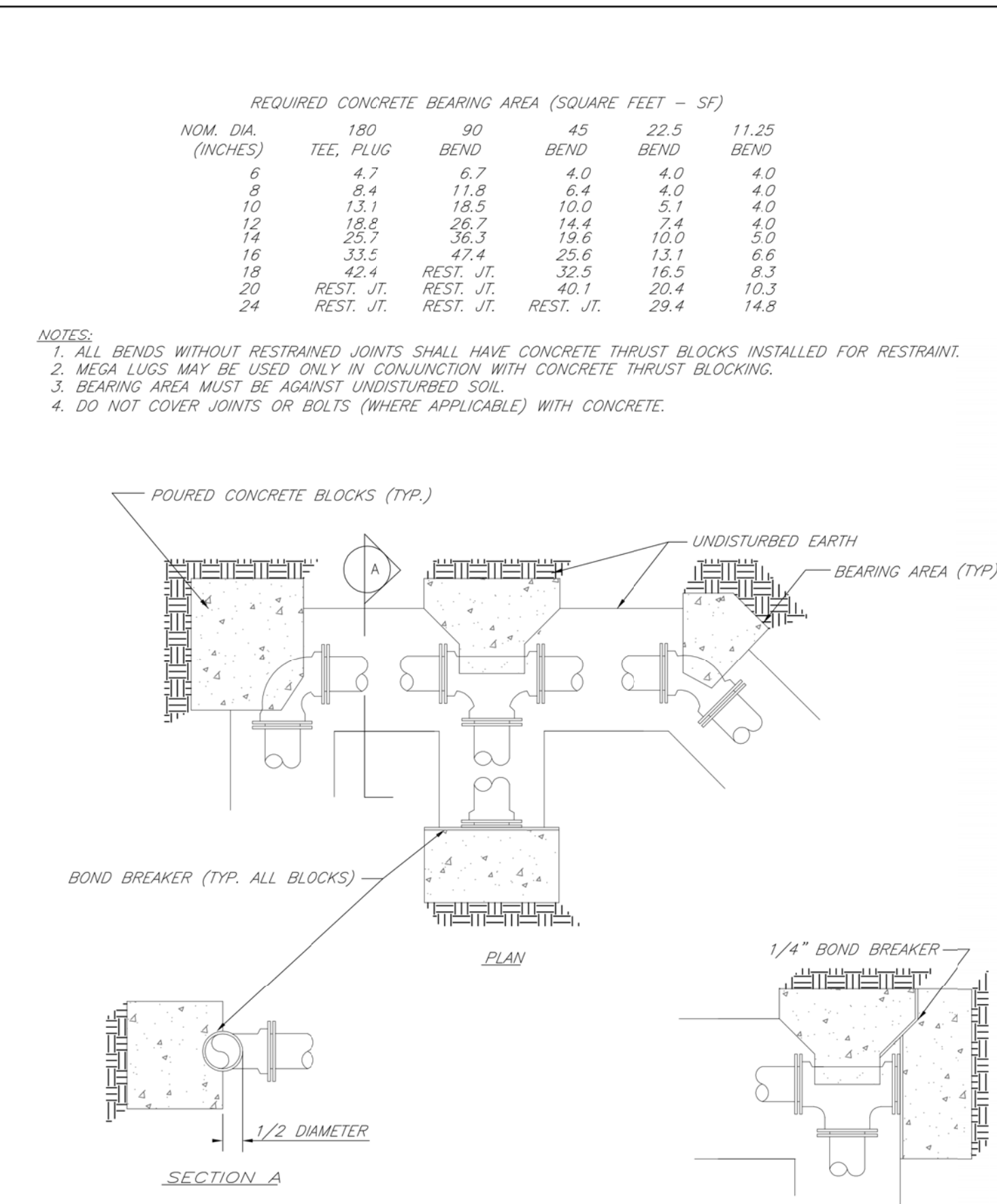
Drawn By: JN

Checked By: DL

FILE: WAT-6

Rev: 1/14

Rev:



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MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

HORIZONTAL THRUST BLOCKS

Date: 02/13

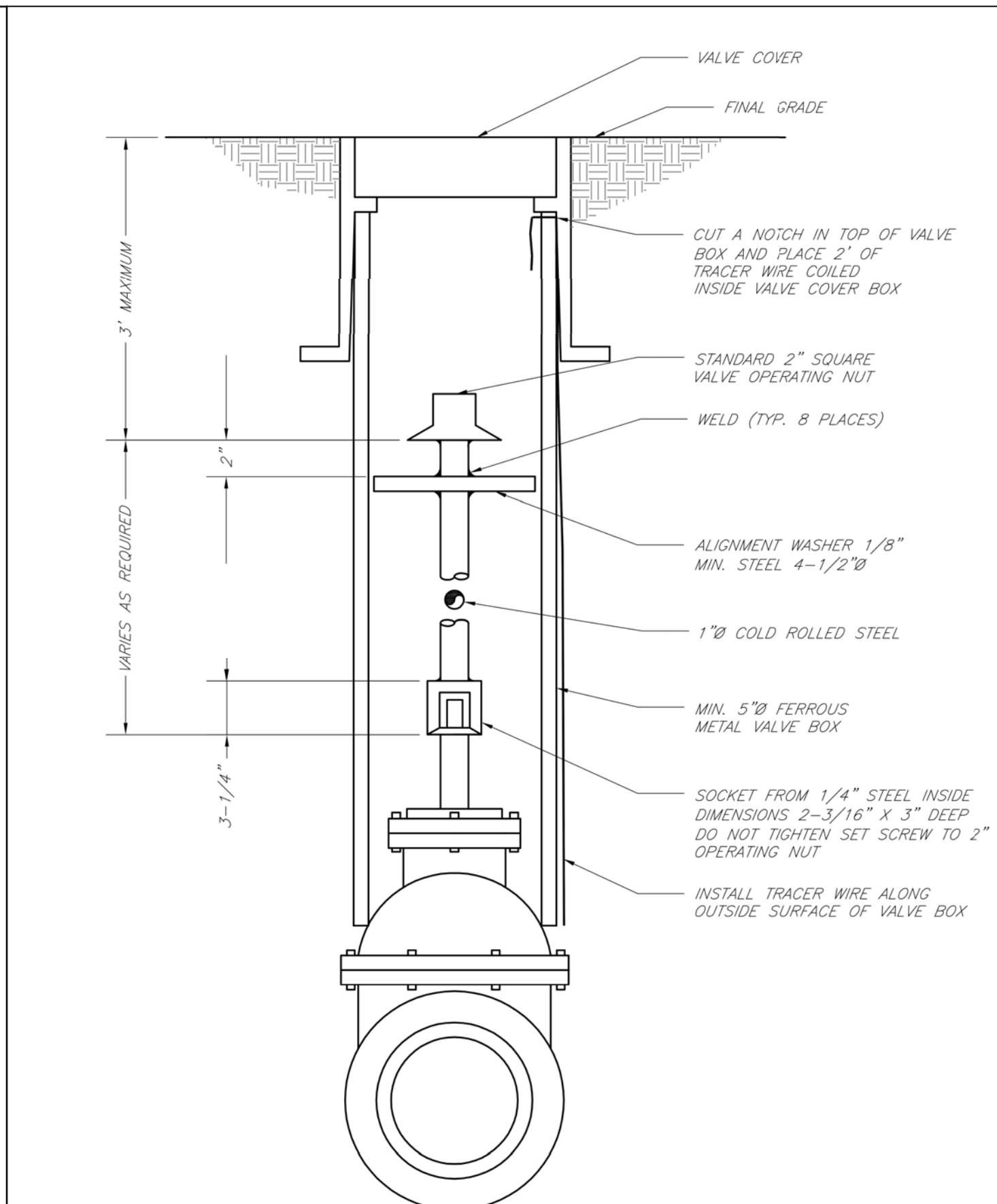
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FILE: WAT-1

Rev: 1/14

Rev:



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PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

VALVE STEM EXTENSION AND VALVE BOX

Date: 02/13

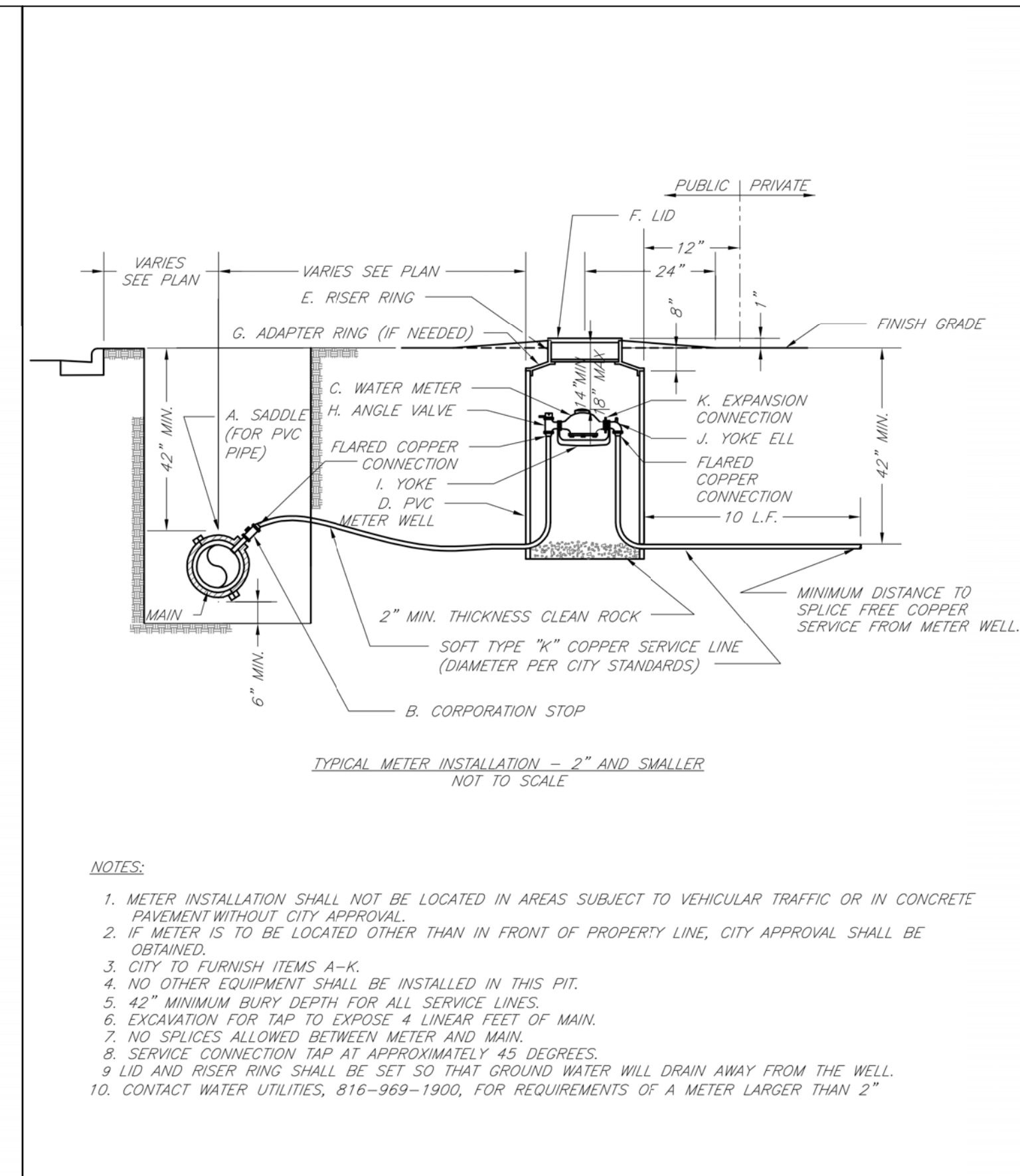
Drawn By: JN

Checked By: DL

FILE: WAT-9

Rev: 1/14

Rev:



NOTES:

1. METER INSTALLATION SHALL NOT BE LOCATED IN AREAS SUBJECT TO VEHICULAR TRAFFIC OR IN CONCRETE PAVEMENT WITHOUT CITY APPROVAL.
2. IF METER IS TO BE LOCATED OTHER THAN IN FRONT OF PROPERTY LINE, CITY APPROVAL SHALL BE OBTAINED.
3. CITY TO FURNISH ITEMS A-K.
4. NO OTHER EQUIPMENT SHALL BE INSTALLED IN THIS PIT.
5. 42" MINIMUM BURY DEPTH FOR ALL SERVICE LINES.
6. EXCAVATION FOR TAP TO EXPOSE 4 LINEAR FEET OF MAIN.
7. NO SPLICES ALLOWED BETWEEN METER AND MAIN.
8. SERVICE CONNECTION TAP AT APPROXIMATELY 45 DEGREES.
9. LID AND RISER RING SHALL BE SET SO THAT GROUND WATER WILL DRAIN AWAY FROM THE WELL.
10. CONTACT WATER UTILITIES, 816-969-1900, FOR REQUIREMENTS OF A METER LARGER THAN 2"

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PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

SERVICE CONNECTION/METER WELL

Date: 02/13

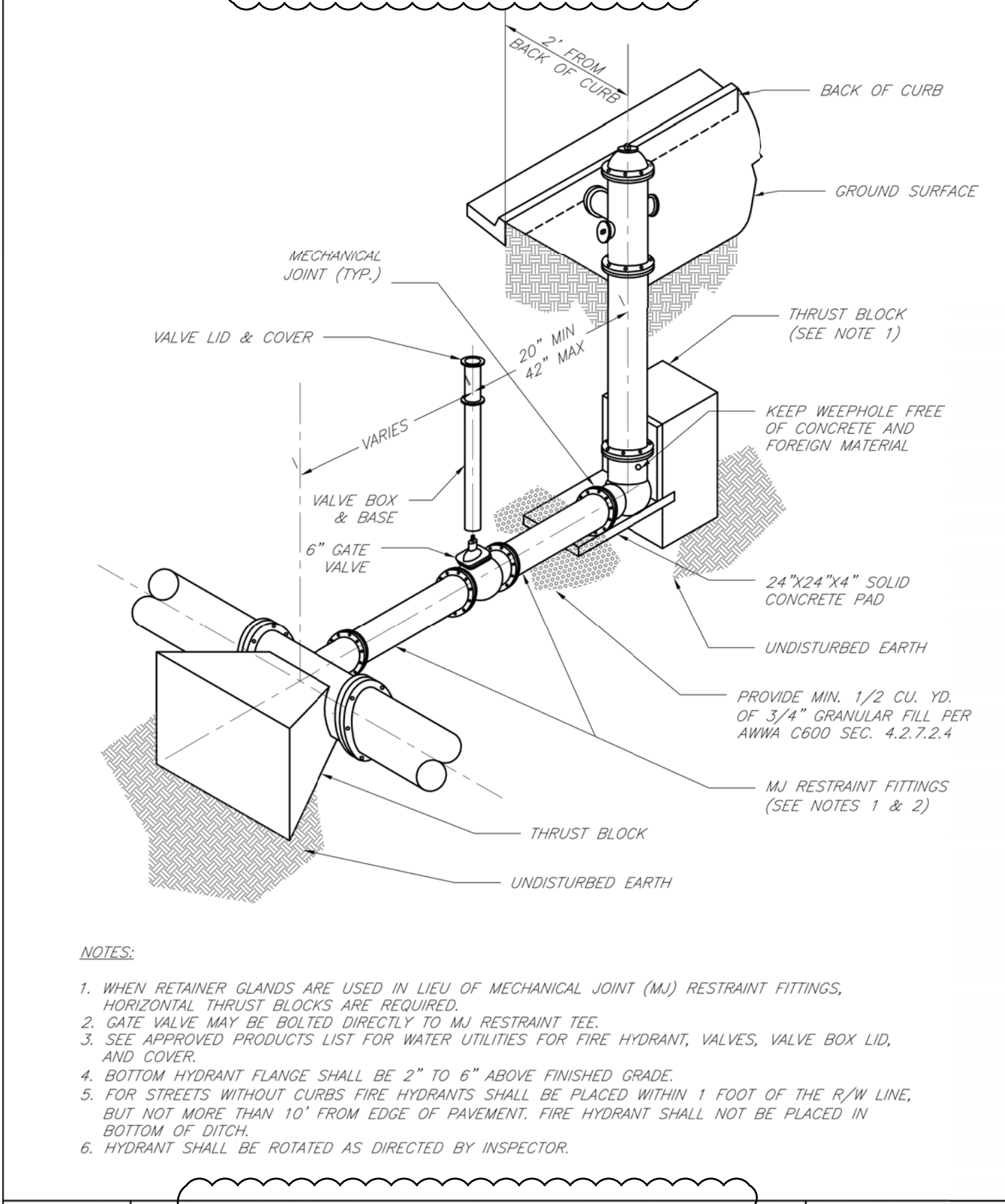
Drawn By: JN

Checked By: DL

FILE: WAT-11

Rev: 1/14

Rev:



NOTES:

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6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

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LEE'S SUMMIT

MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

HYDRANT INSTALLATION - STRAIGHT SET

Date: 02/13

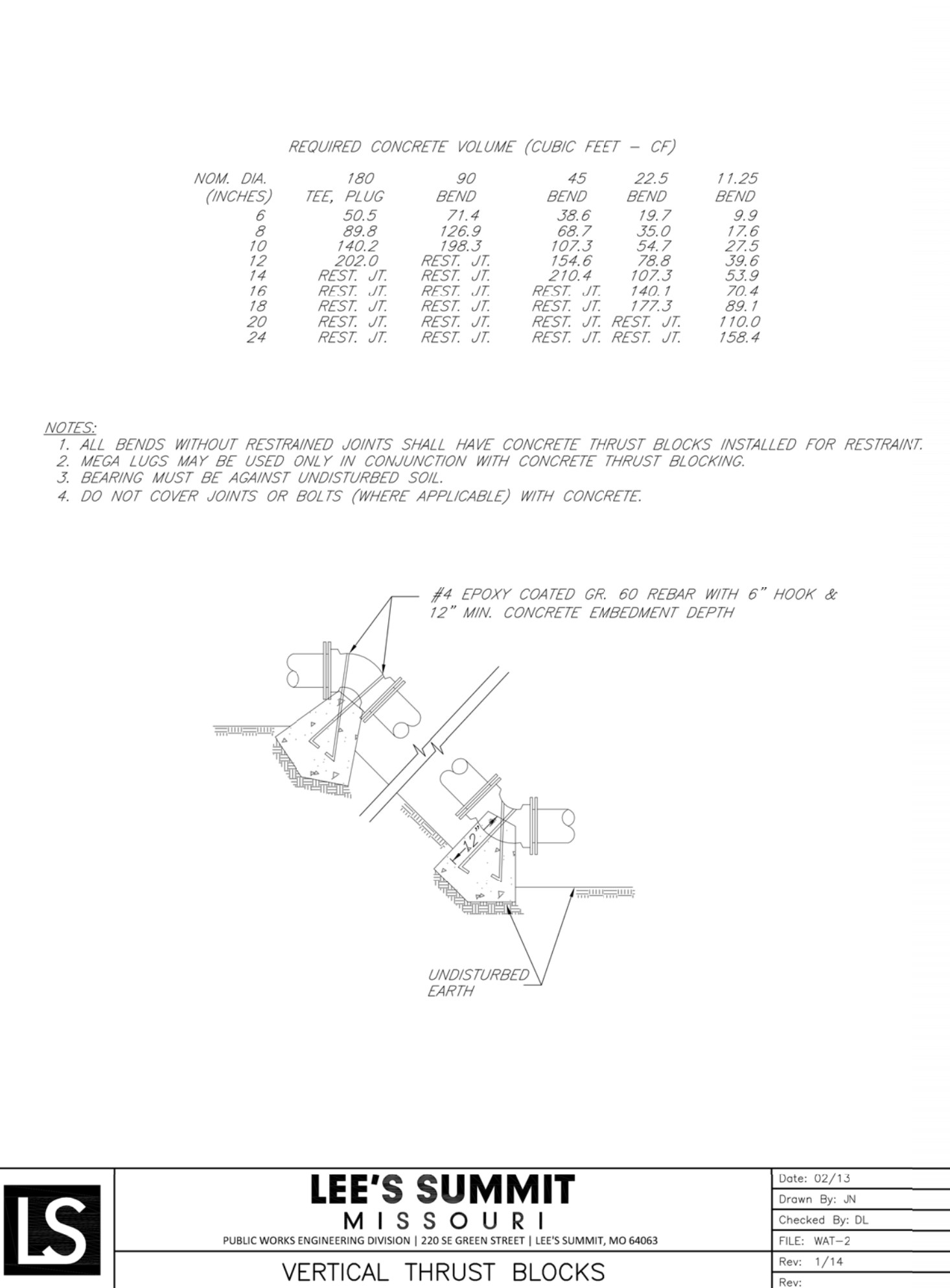
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Checked By: DL

FILE: WAT-7

Rev: 1/14

Rev:



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MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

VERTICAL THRUST BLOCKS

Date: 02/13

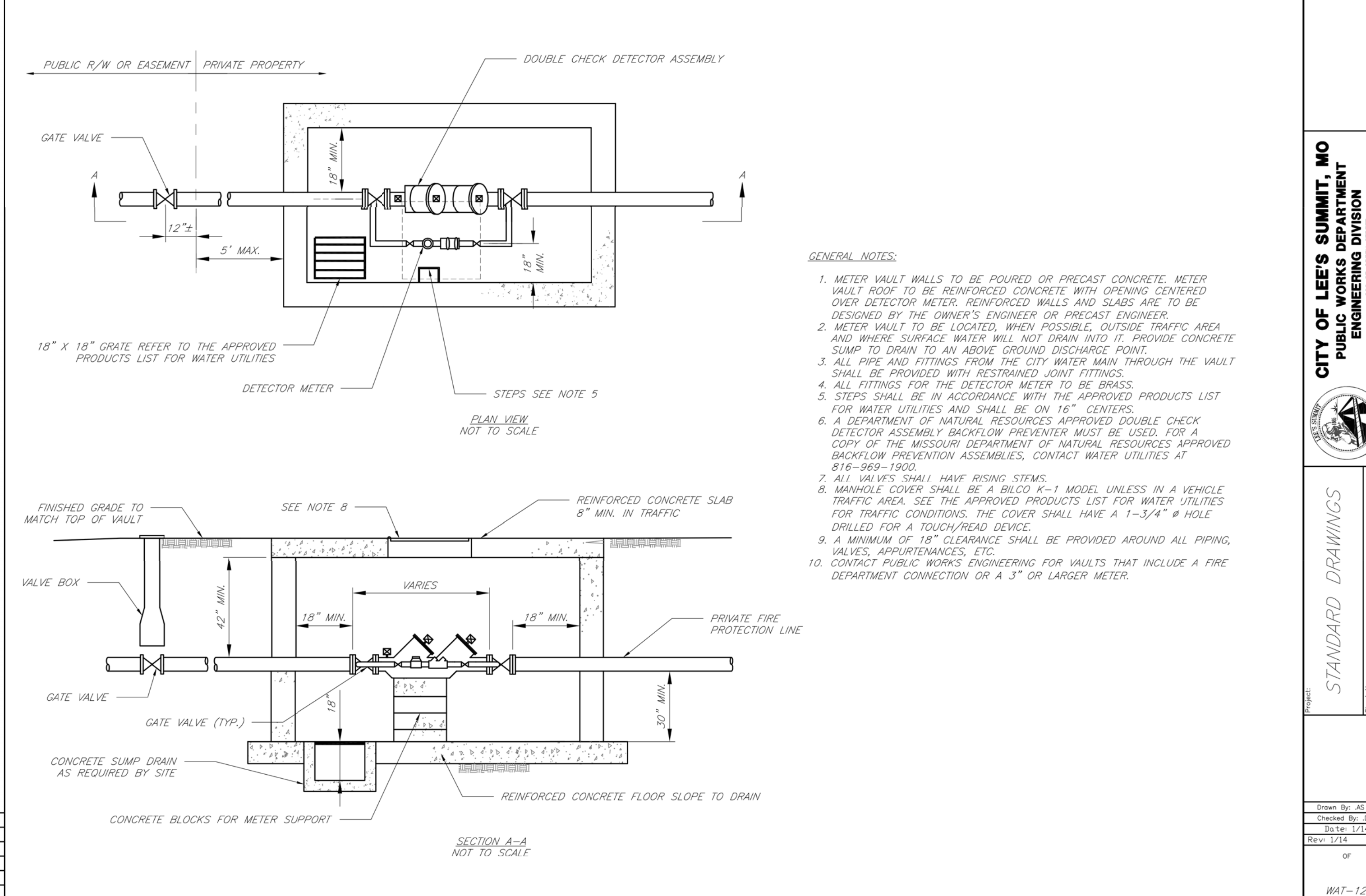
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Checked By: DL

FILE: WAT-2

Rev: 1/14

Rev:



GENERAL NOTES:

1. METER VAULT WALLS TO BE POURED OR PRECAST CONCRETE. METER VAULT ROOF TO BE REINFORCED CONCRETE WITH OPENING CENTERED OVER DETECTOR METER. REINFORCED WALLS AND SLABS ARE TO BE DESIGNED BY THE OWNER'S ENGINEER OR PRECAST ENGINEER.
2. METER VAULT TO BE LOCATED, WHEN POSSIBLE, OUTSIDE TRAFFIC AREA AND WHERE SURFACE WATER WILL NOT DRAIN INTO IT. PROVIDE CONCRETE SUMP TO DRAIN TO AN ABOVE GROUND DISCHARGE POINT.
3. ALL PIPE AND FITTINGS FROM THE CITY WATER MAIN THROUGH THE VAULT SHALL BE PROVIDED WITH RESTRAINED JOINT FITTINGS.
4. ALL FITTINGS FOR THE DETECTOR METER TO BE BRASS.
5. STEPS SHALL BE IN ACCORDANCE WITH THE APPROVED PRODUCTS LIST FOR WATER UTILITIES AND SHALL BE ON 16" CENTERS.
6. A DEPARTMENT OF NATURAL RESOURCES APPROVED DOUBLE CHECK DETECTOR ASSEMBLY BACKFLOW PREVENTER MUST BE USED. FOR A COPY OF THE MISSOURI DEPARTMENT OF NATURAL RESOURCES APPROVED BACKFLOW PREVENTION ASSEMBLIES, CONTACT WATER UTILITIES AT 816-969-1900.
7. ALL VALVES SHALL HAVE RISING STEMS.
8. MANHOLE COVER SHALL BE A BULO K-1 MODEL UNLESS IN A VEHICLE TRAFFIC AREA. SEE THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR TRAFFIC CONDITIONS. THE COVER SHALL HAVE A 1-3/4" Ø HOLE DRILLED FOR A TOUCH/READ DEVICE.
9. A MINIMUM OF 18" CLEARANCE SHALL BE PROVIDED AROUND ALL PIPING, VALVES, APPURTENANCES, ETC.
10. CONTACT PUBLIC WORKS ENGINEERING FOR VAULTS THAT INCLUDE A FIRE DEPARTMENT CONNECTION OR A 3" OR LARGER METER.

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LEE'S SUMMIT

MISSOURI

PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD DRAWINGS

Date: 02/13

Drawn By: JN

Checked By: DL

FILE: WAT-12

Rev: 1/14

Rev:

REVISIONS:

NO.	DATE
ORIGINAL	08/26/2019
1	09/27/2019

THIS SHEET HAS BEEN SIGNED SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI

PROFESSIONAL ENGINEER

NUMBER 25004000775

TIMOTHY D. CROCKETT

MO LICENSE - 2004000775

PREPARED BY:

CROCKETT

ENGINEERING CONSULTANTS

2610 N. W. MISSOURI

COLUMBIA, MO 65203

www.crockettingeering.com

Crockett Engineering Consultants, LLC

Missouri License of Authority

2500400075

OWNER:

NEW TIG-STORCART

PARTNERS PORTFOLIO

261 STADIUM BLVD, SUITE 207

COLUMBIA, MO 65203

STORAGE MART 156

3920 S. STATE ROUTE 291

SECTION 3, TOWNSHIP 47 NORTH, RANGE 31 WEST

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

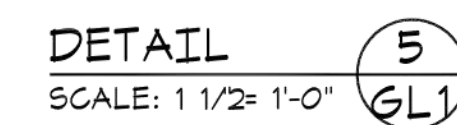
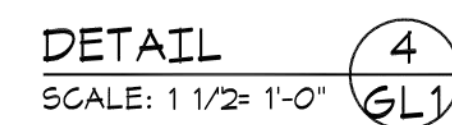
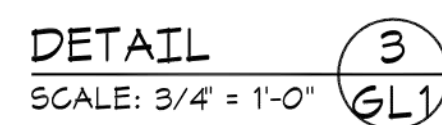
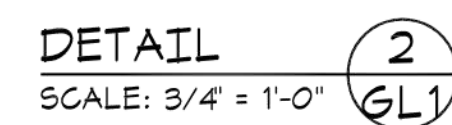
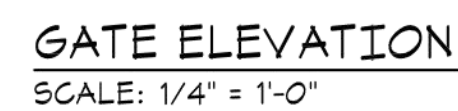
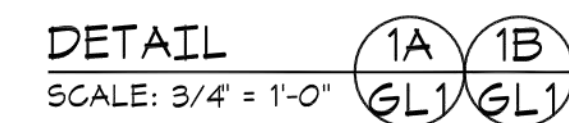
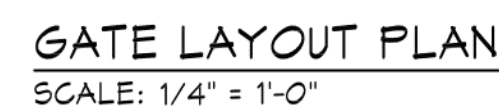
WATER DETAILS

DESIGNED: TDC

DRAWN: JEE

PROJECT NO.: 170504

SHEET: CE 10

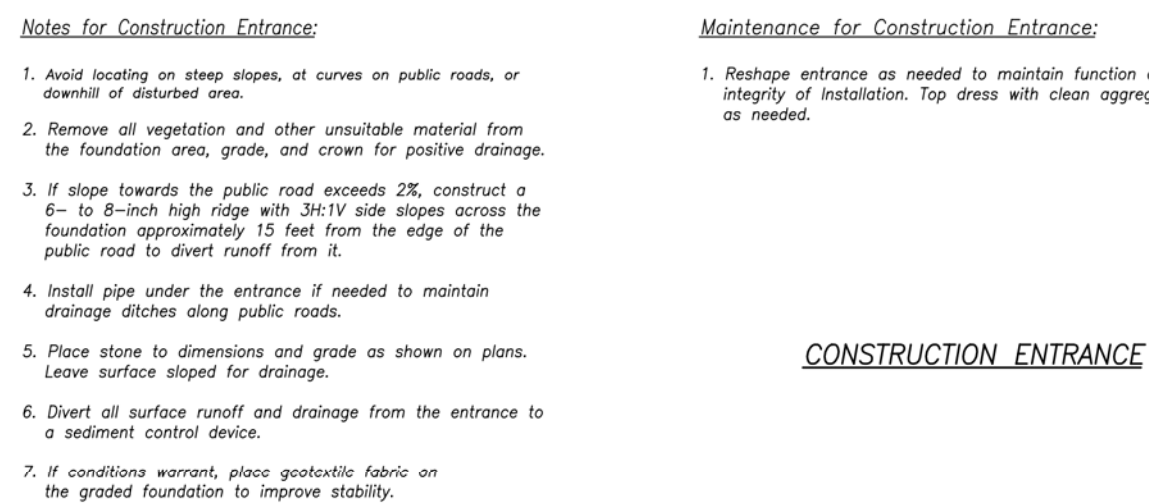


STORAGE MART 156
3920 S. STATE ROUTE 291
SECTION 3, TOWNSHIP 47 NORTH, RANGE 31 WEST
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

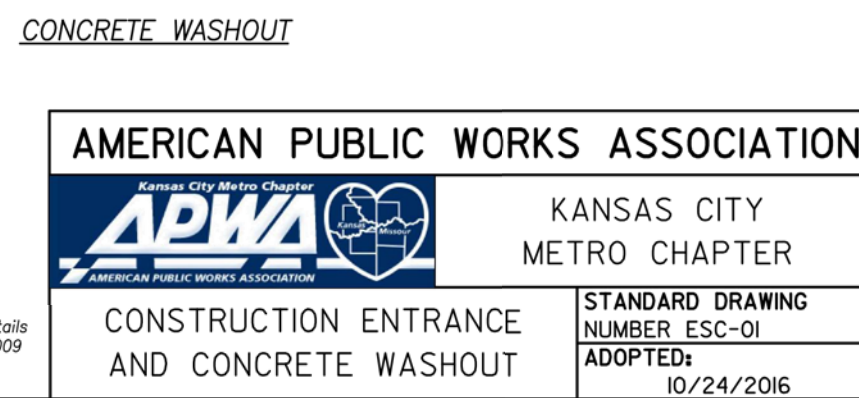
SECURITY GATE
DETAILS

DESIGNED:	TDC
DRAWN:	JEE
PROJECT NO.:	170504
SHEET:	CE 11



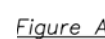
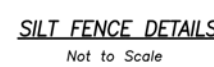
Maintenance for Concrete Washout:

1. Concrete washout materials shall be removed once the materials have been washed to a depth of 725 feet.
2. Concrete washout areas shall be enlarged as necessary to maintain capacity for wasted concrete.
3. Concrete washout water, wasted pieces of concrete and all other debris in the subsurface pit shall be transported from the job site in a water-tight container and disposed of properly.
4. Concrete washout areas shall remain in place until all concrete for the project is placed.
5. When concrete washout areas are removed, excavations shall be filled with suitable compacted backfill and topped, and any disturbed areas shall be restored to the original condition. The use or removal of concrete washout areas shall be stabilized.

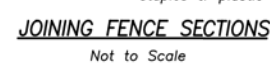


Notes for Installation on Slopes:

1. Erosion Control Blankets and TRMs shall be laid in the direction of the slope, in order for blanket to be in contact with the soil, lay blanket loosely, avoiding stretching.
2. ANCHOR SLOTS: The top of the blanket should be "slotted in" at the top of the slope and anchored in place with anchors 8 inches apart. The slots should be 6 inches wide x 6 inches deep with the blanket anchored in the bottom of the slot, then backfilled, tamped and seeded.
3. SPLICE SEAM: When splices are necessary, overlap end a minimum of 8 inches in direction of water flow. Stagger splice seams.
4. TERMINAL FOLD: The bottom edge of the blanket shall be turned under a minimum of 4 inches, then anchored in place with anchors 9 inches apart.



SILT FENCE LAYOUT
Not to Scale

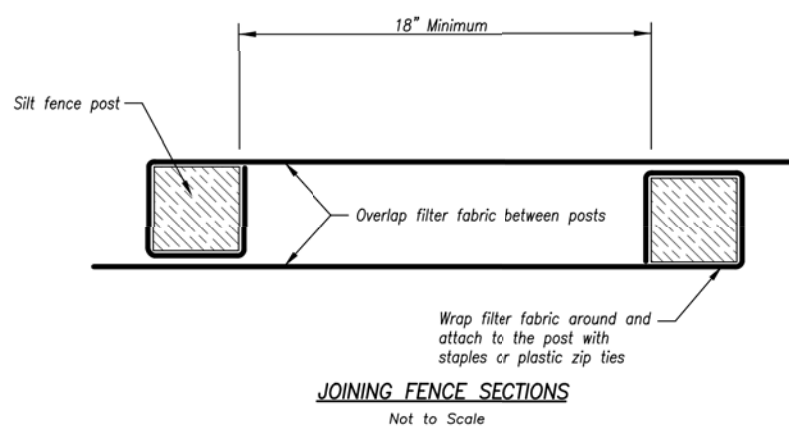



Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches $\frac{1}{2}$ the height of silt fence.
2. Repair as necessary to maintain function and structure.

Diagram illustrating the maintenance of a silt fence section. The diagram shows two silt fence posts connected by filter fabric. A dimension line above the posts indicates a minimum distance of 18 inches between them. Labels include:

- Silt fence post
- Overlap filter fabric between posts
- Wrap filter fabric around and attach to the post with staples or plastic zip ties
- JOINTED FENCE SECTIONS
- NOT TO SCALE



AMERICAN PUBLIC WORKS ASSOCIATION Kansas City Metro Chapter 		KANSAS CITY METRO CHAPTER
SILT FENCE	STANDARD DRAWING NUMBER: 03-11 ADOPTED: 10/24/2016	



Notes for Wattles and Biodegradable Log Slope Protection:


1. The Slope barriers shall be placed along contour lines, with a short section turned up grade at each end of the barrier. The maximum length of the slope barrier shall not exceed 250 feet, and the barrier ends need to be staggered.
2. Install wattles and biodegradable logs per manufacturer's instructions.
3. Spacing of stakes per manufacturer's instructions with 4' max. spacing. Length of stakes shall be a minimum of 2 times the diameter of the log with minimum of 24".

Notes for Mulch and Compost Filter Beam

1. The sediment control berm shall be placed uncompact in the window of locations shown on the plans or as directed by the engineer.
2. Parallel to the base of the slope, or around the perimeter of other affected areas, construct a 1 to 3 foot high berm (see Figure 1) to prevent erosion. For maximum water treatment ability or for steep slopes, construct a 1.5 to 3 foot high trapezoidal berm that is 1.5 to 3 feet wide at the top (see Figure 2). In extreme conditions, or where specified by the engineer, a second berm shall be constructed at the top of the slope. Erosion control berm requirements are shown in Figure 3.
3. If berm is to be left as permanent or part of the natural landscape, the compost berm may be seeded during application for permanent vegetation.
4. Do not use compost or wood mulch berms in any runoff channels or concentrated flow areas.
5. Wood mulch shall consist of tree and shrub debris resulting from clearing and grading and shall be ground to a maximum of 1/2" in diameter. Homogeneous top grade or other approved method.
6. Apply a minimum of 2" of wood mulch and a maximum length of 10'.

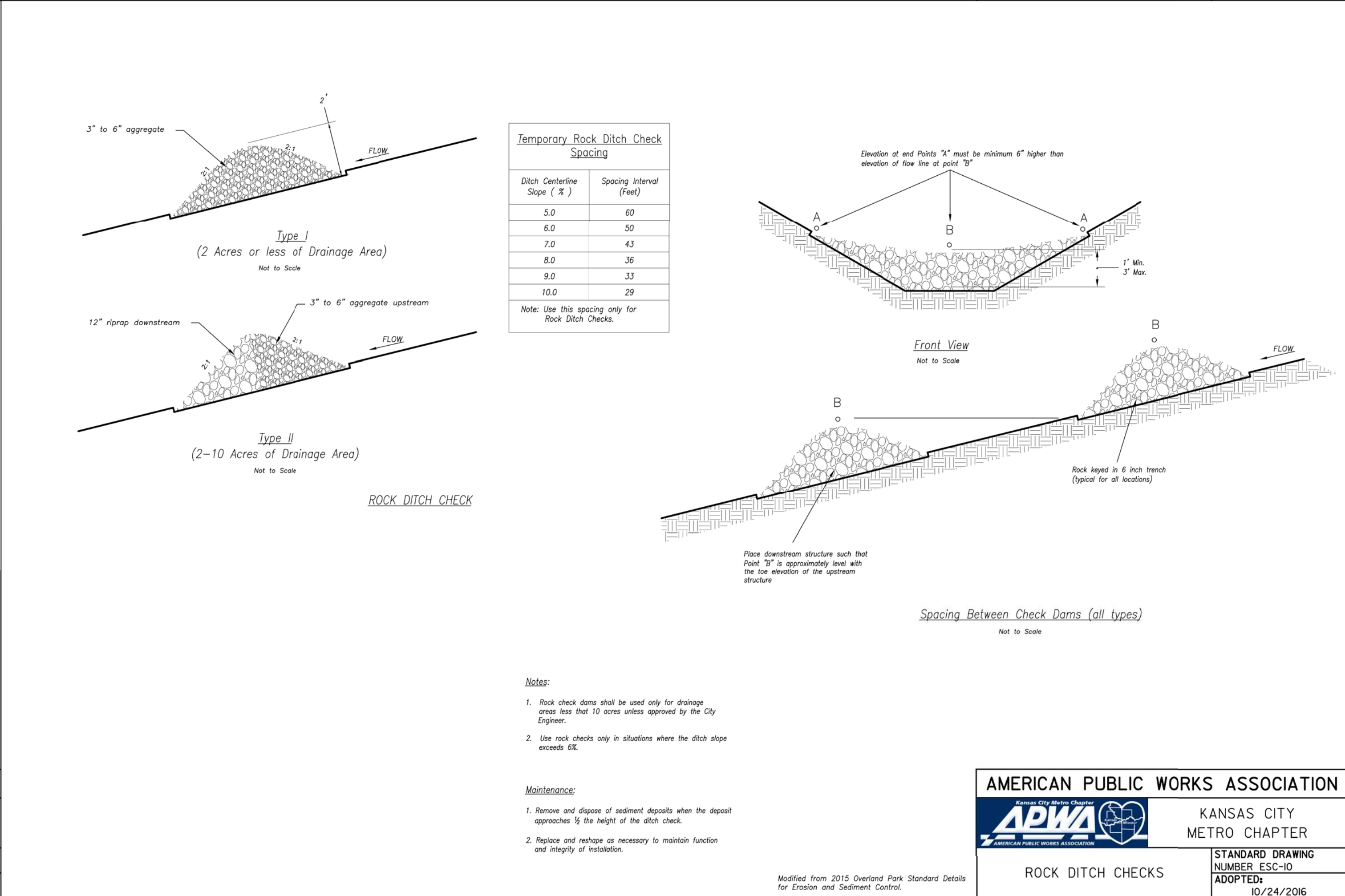
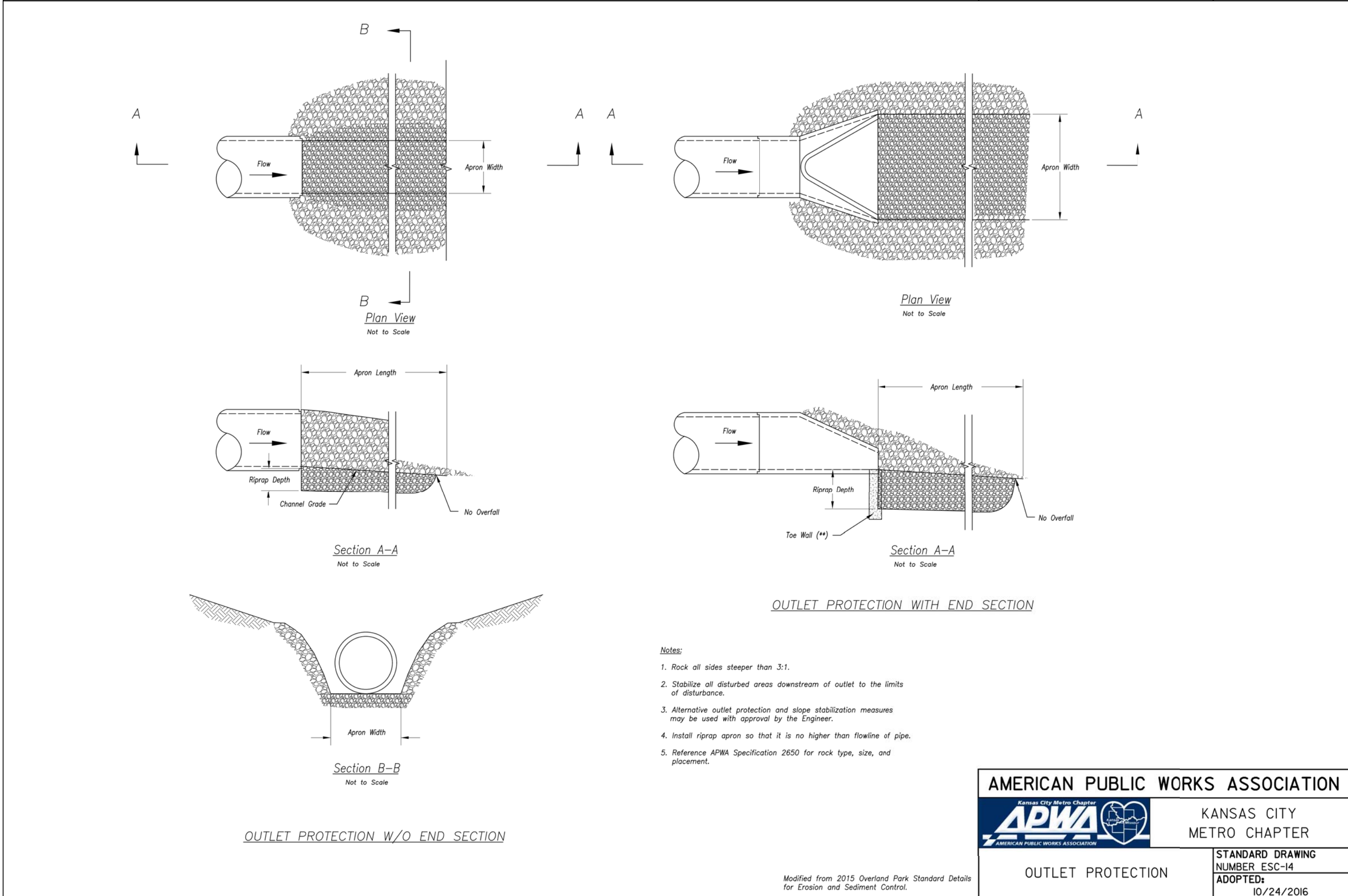
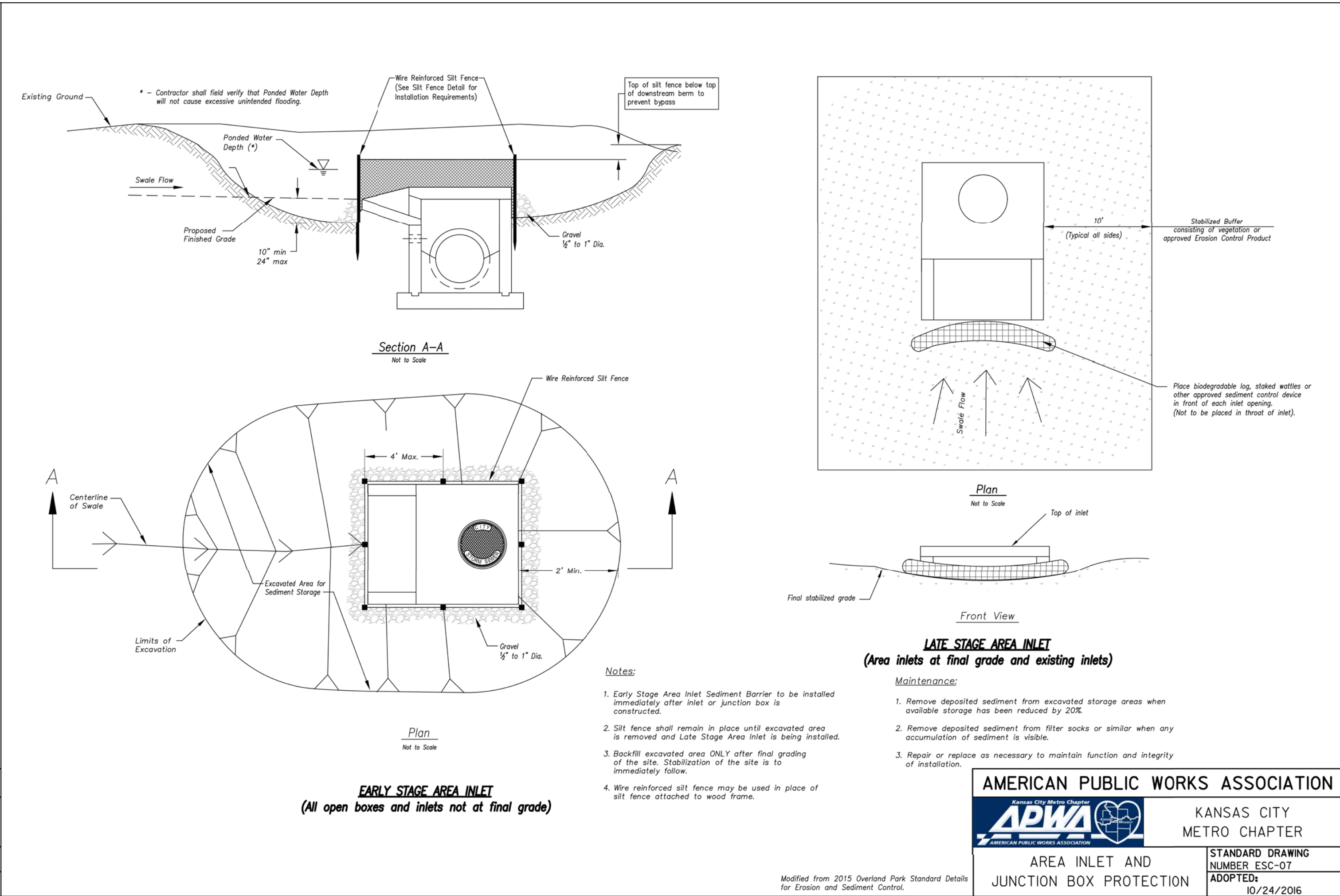
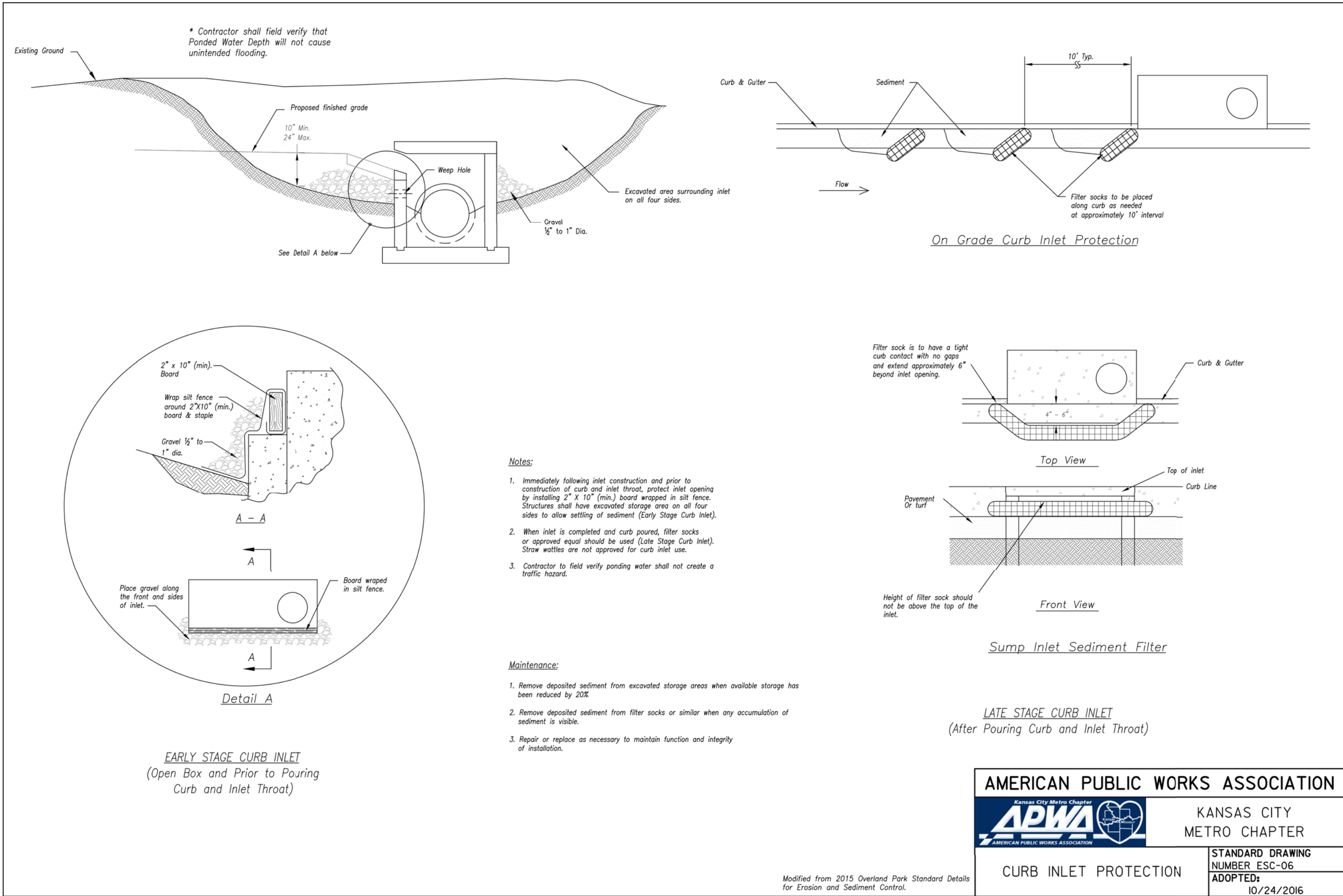
Maintenance for Mulch and Compost Filter Beam:

1. Berm shall be reshaped and material added as necessary to maintain function and dimensions.
2. Breaches in the berm shall be repaired promptly.

AMERICAN PUBLIC WORKS ASSOCIATION 		KANSAS CITY METRO CHAPTER
WATTLES/BIODEGRADABLE LOG AND MULCH/COMPOST FILTER BERM		STANDARD DRAWING NUMBER ESC-04 ADOPTED: 10/24/2016

Modified from 2015 Overland Park Standard Detail
for Erosion and Sediment Control.

REVISIONS:	
NO.	DATE
ORIGINAL	08/26/2019
THIS SHEET HAS BEEN SIGNED, SEALED, AND DATED ELECTRONICALLY	
	
TIMOTHY D. CROCKETT MO LICENSE - 2004000775	
PREPARED BY:  Crockett Engineering Consultants, LLC 1020 W. Mingo Blvd., Suite 207 Columbia, Missouri 65203 www.crockettengineering.com Missouri Professional Engineer #2004000775	
OWNER: NEW TKG-STORAGE MART PARTNERS PORTFOLIO 216 N STADIUM BLVD., SUITE 207 COLUMBIA, MO 65203	
STORAGE MART 156 3920 S. STATE ROUTE 291 SECTION 3, TOWNSHIP 47 NORTH, RANGE 31 WEST LEE'S SUMMIT, JACKSON COUNTY, MISSOURI	
DRAWING INCLUDES: EROSION CONTROL DETAILS	
DESIGNED:	TDC
DRAWN:	JEE
PROJECT NO.:	170504
SHEET:	CE 12



REVISIONS:

NO.	DATE
ORIGINAL	08/26/2019

THIS SHEET HAS BEEN SIGNED, SEALED AND DATED ELECTRONICALLY

STATE OF MISSOURI

PROFESSIONAL ENGINEER

NUMBER 25-0004000775

TIMOTHY D. CROCKETT

MO LICENSE - 2004000775

PREPARED BY:

CROCKETT

ENGINEERING CONSULTANTS

16020 N.W. Missouri 66003

Columbia, MO 65203

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Crockett Engineering Consultants, LLC

Missouri License of Authority

0000000001

OWNER:

NEW TWG STOREMART

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261 STADIUM BLVD, SUITE 207

COLUMBIA, MO 65203

STORAGE MART 156

3920 S. STATE ROUTE 291

SECTION 3, TOWNSHIP 47 NORTH, RANGE 31 WEST

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

DRAWING INCLUDES:

EROSION CONTROL DETAILS (CONT.)

DESIGNED: TDC

DRAWN: JEE

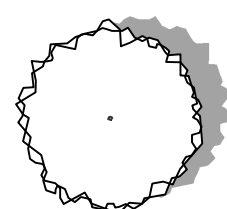
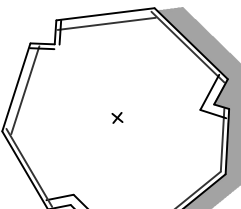
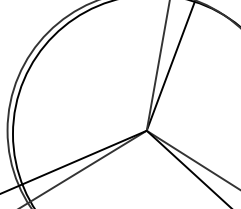


PROJECT NO.: 170604

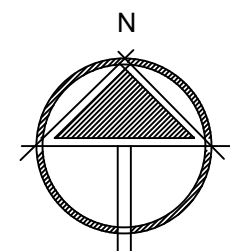
SHEET: CE 13

LANDSCAPE COMPLIANCE:		
LANDSCAPE REQUIREMENTS	REQUIREMENTS	PROPOSED
1 TREE PER 30' OF STREET FRONTAGE	STREET FRONTAGE = 284' 284/30 = 10 TREES	10 TREES
1 SHRUB PER 20' OF STREET FRONTAGE	STREET FRONTAGE = 284' 284/20 = 15 TREES	15 SHRUBS
STREET FRONTAGE GREEN STRIP	20'	20'
2 SHRUBS PER 5,000 SQ.FT. OF TOTAL LOT AREA EXCLUDING BUILDING FOOTPRINT	55,449 SQ.FT.-16,651 SQ.FT. = 38,798 SQ.FT./5,000 x 2 = 16 SHRUBS	16 SHRUBS
1 TREE PER 5,000 SQ.FT. OF TOTAL LOT AREA EXCLUDING BUILDING FOOTPRINT	55,449 SQ.FT.-16,651 SQ.FT. = 38,798 SQ.FT./5,000 = 8 TREES	8 TREES
1 SHADE TREE PER 500 SQ.FT. OF BUFFER AREA 1 ORNAMENTAL TREE PER 750 SQ.FT. OF BUFFER AREA 1 EVERGREEN TREE PER 300 SQ.FT. OF BUFFER AREA 1 SHRUB PER 200 SQ.FT. OF BUFFER AREA	BUFFER AREA = 3,740 SQ.FT. 3,750/500 = 8 SHADE TREES 3,750/750 = 5 ORNAMENTAL TREES 3,750/300 = 13 EVERGREEN TREES 3,750/200 = 19 SHRUBS	8 SHADE TREES 5 ORNAMENTAL TREES 13 EVERGREEN TREES 19 SHRUBS
12 SHRUBS PER 40 L.F. OF PARKING AREA = 1 SHRUB PER 3.33 L.F.	24/3.33 = 7 SHRUBS	7 SHRUBS

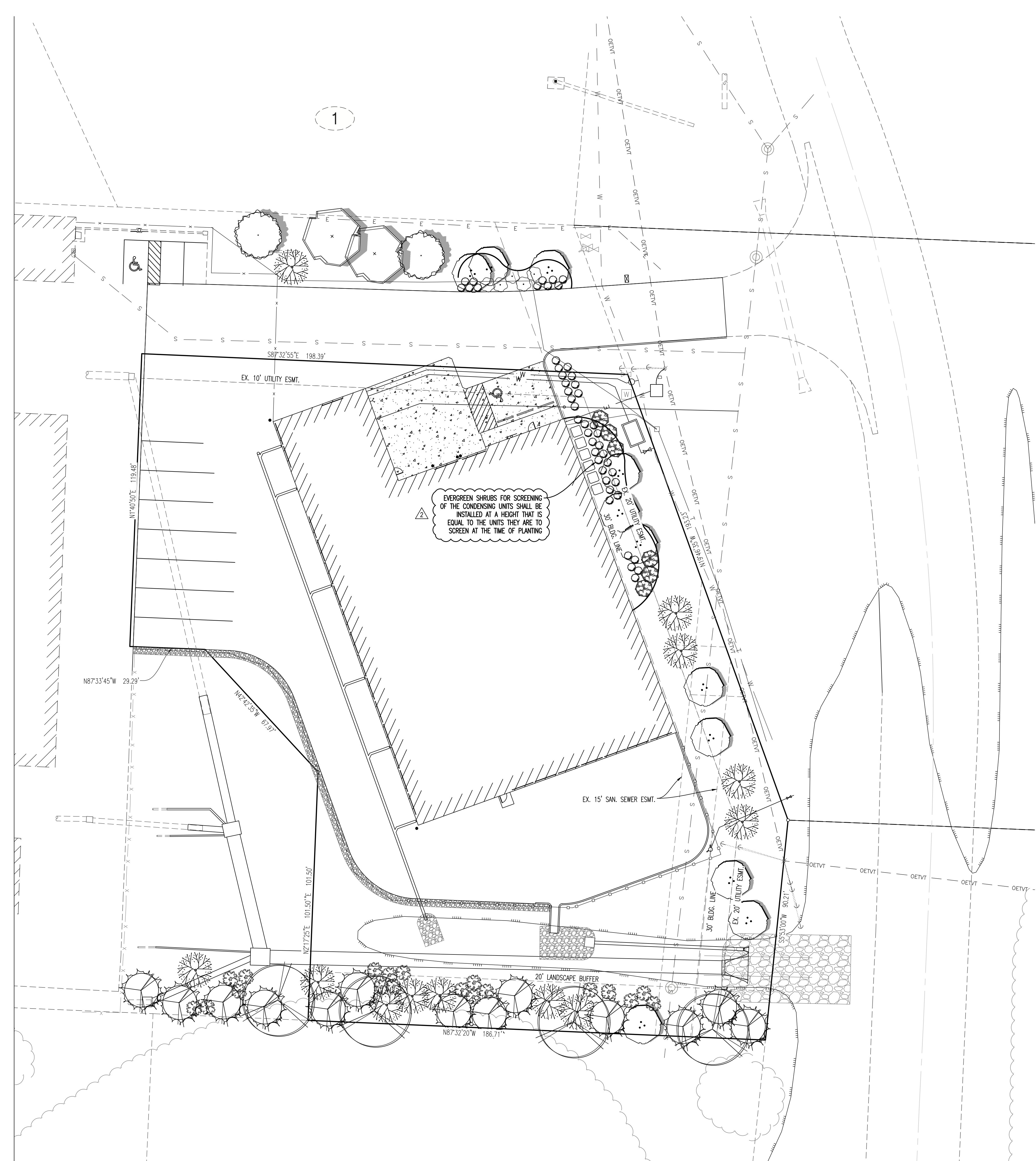
THE PLANT LIST IS PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY ALL PLANT COUNTS AND IF A DISCREPANCY EXISTS THE PLAN SHALL GOVERN. LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR BECOMING AWARE OF ALL UNDERGROUND UTILITIES, PIPES, AND STRUCTURES. THE LANDSCAPE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES FOR FIELD LOCATION OF ALL UNDERGROUND UTILITY LINES PRIOR TO ANY EXCAVATION. LANDSCAPE CONTRACTOR TO RECEIVE SITE GRADED TO +/-0.10 FOOT OF FINISHED GRADE. PLANTING BACK FILL MIX IS TO CONSIST OF 80% NATIVE TOPSOIL, AND 20% ORGANIC MATTER. SHRUB BEDS, BERMS, AND TREE WELLS ARE TO BE MULCHED WITH 3-4" DYED HARDWOOD MULCH. ALL SEEDED AREAS WITH A SLOPE OF 2:1 OR GREATER SHALL BE CONTROLLED WITH EROSION CONTROL NETTING. ALL BED AND LAWN AREAS SHALL BE IRRIGATED WITH POP-UP SPRAY HEADS. ALL LAWN AREAS TO BE SOODED WITH TALL FESCUE SOD. LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL PLANT MATERIAL FOR A PERIOD OF TWELVE MONTHS. ALL PLANTING BEDS AND TREE RINGS TO BE SEPERATED FROM TURF AREAS BY "V" TRENCHING. ALL PLANT MATERIAL MUST MEET THE SPECIFICATIONS OF THE AMERICAN ASSOCIATION OF NURSERYMEN.

PLANT SCHEDULE

SYMBOL	QUANTITY - TYPE OF PLANT - EXAMPLES OF PLANTS - SIZE PLANTED
	8 - SHADE TREE - BLACK GUM, YELLOWWOOD, AMERICAN HORNBEAM, ETC - 3" CAL. (MIN.)
	25 - ORNAMENTAL TREE - DECIDUOUS HOLLY, REDBUD, GREEN HAWTHORNE, ETC - 3" CAL. (MIN.)
	13 - EVERGREEN TREE - EASTERN RED CEDAR, LACEBARK PINE, ETC - 8" H (MIN.)
	30 - FLOWERING SHRUB - BLACK HAW VIBURNUM (FOR BUFFER), WILD HYDRANGEA, NINEBARK, ETC - 5 GAL
	45 - EVERGREEN SHRUB - SKY ROCKET JUNIPER, DWARF ARBORVITAE, ETC - 5 GAL



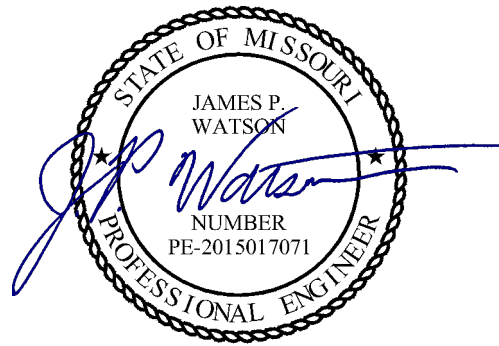
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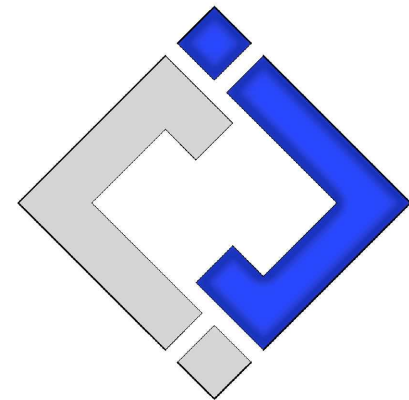
Site Lighting Design Drawings for

Storage Mart Addition

3920 South State Route 291
Lee's Summit, Jackson County, Missouri



James Watson, P.E. May 17, 2019
PE-2015017071
MO Certificate of Authority # 2018029680



J-SQUARED
ENGINEERING

630 North Morley Street, Suite 102
Moberly, Missouri 65270
573 - 234 - 4492 phone
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J2 PROJECT No:	J20038
J2 DESIGN:	JAP

ISSUE TITLE		DATE
PERMIT SET		05 - 17 - 2019

GENERAL MEP SPECIFICATIONS

- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW AND UNDERSTAND ALL DRAWINGS AND SPECIFICATIONS IN THE CONTRACT DOCUMENTS. EACH CONTRACTOR IS RESPONSIBLE FOR ALL WORK ASSOCIATED WITH HIS TRADE REGARDLESS OF WHERE THE WORK IS DEPICTED IN THE DRAWINGS OR SPECIFICATIONS.
- THE LAYOUT OF SYSTEMS SHOWN ON PLANS ARE APPROXIMATE AND WILL NEED TO BE COORDINATED IN FIELD. THE CONTRACTOR SHALL INCLUDE THIS COORDINATION IN HIS SCOPE AND INCLUDE ALL COSTS OF MODIFYING THE LAYOUT AS REQUIRED IN HIS BID.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY PARTS AND LABOR TO PRODUCE A COMPLETE AND FULLY OPERATIONAL SYSTEM UNLESS STATED OTHERWISE ON PLANS.
- ALL MATERIALS TO BE NEW, FIRST CLASS, AND INSTALLED PER MANUFACTURE'S PUBLISHED INSTRUCTIONS.
- ALL WORK SHALL BE PERFORMED IN COMPLIANCE WITH LOCALLY ADOPTED CODES AND ORDINANCES.
- CONTRACTOR IS RESPONSIBLE FOR TO COORDINATE EQUIPMENT LOCATIONS AND SYSTEM ROUTING WITH OTHER TRADES PRIOR TO INSTALLATION.
- CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE THE PROJECT IS TURN OVER TO THE OWNER, UNLESS NOTED OTHERWISE.
- CONTRACTOR IS TO INCLUDE IN HIS SCOPE THE COST OF ALL PERMITS, INSPECTIONS, METERING, AND TAPS ASSOCIATED WITH HIS WORK.
- CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION, CUTTING, CORING, PATCHING, AND BACKFILL REQUIRED TO COMPLETE HIS WORK, UNLESS NOTED OTHERWISE.
- THESE PLANS ARE NOT TO BE SCALED. SEE ARCHITECTURAL PLANS FOR DIMENSIONS. WHERE THERE IS A CONFLICT BETWEEN ARCHITECTURAL DIMENSIONS AND MEP DIMENSION, ARCHITECTURAL SHALL GOVERN.
- SEE DISCIPLINE SHEETS FOR ADDITIONAL DISCIPLINE SPECIFIC SPECIFICATIONS.

ELECTRICAL SPECIFICATIONS

- GENERAL
 - THE ENTIRE ELECTRICAL SYSTEM SHALL BE CONTINUOUSLY GROUNDED. EVERY BRANCH CONDUIT SHALL INCLUDE A GREEN GROUND CONDUCTOR SIZED PER NEC.
 - ARC-FAULT CIRCUITS SHALL BE RUN WITH A DEDICATED NEUTRAL AS REQUIRED BY MANUFACTURER.
 - PROVIDE PERMANENT ARC-FLASH LABEL AFFIXED TO EVERY DISCONNECT AND PANEL.
 - PROVIDE TYPE WRITTEN PANEL SCHEDULE FOR EACH PANEL.
- MATERIALS
 - CONDUIT & CONDUCTORS
 - ALL CONDUCTORS SIZES INDICATED ON PLANS ARE COPPER UNLESS NOTED OTHERWISE.
 - ABOVE GRADE CONDUCTORS SHALL BE THHN COPPER. BELOW GRADE CONDUCTORS SHALL BE XHHW-2.
 - MINIMUM CONDUCTOR SIZE SHALL BE #12 UNLESS NOTED OTHERWISE. 120V, 20 AMP CIRCUITS WITH CONDUCTOR LENGTH GREATER THAN 100' SHALL BE MINIMUM #10. ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR MEASURING ACTUAL CONDUCTOR LENGTH AND INCREASING CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP AS REQUIRED BY NEC.
 - RIGID GALVANIZED OR SCHEDULE 40 PVC CONDUIT SHALL BE USED FOR SERVICE WIRING, BELOW GRADE INSTALLATIONS, OR WHERE EXPOSED TO WEATHER.
 - IN APPLICATIONS OTHER THAN THOSE LISTED IN 2.1.4, EMT OR MC CABLE IS ACCEPTABLE. WHERE CONDUCTORS ARE PROTECTED FROM DAMAGE, ENCLOSED IN BUILDING MATERIALS, AND CONSTRUCTION IS OF A PERMITTED TYPE, NM CABLE MAY BE USED.
 - DEVICES
 - CONTRACTOR TO PROVIDE J-BOXES, COVER PLATES, AND ANY ACCESSORIES REQUIRED TO PROVIDE A COMPLETE SYSTEM. SEE ARCHITECTURAL PLANS FOR DEVICE COLORS.
 - DUPLEX RECEPTACLES SHALL BE TAMPER RESISTANT, 20 AMP, EQUAL TO LEVITON CR20.
 - TOGGLE WALL SWITCHES SHALL BE EQUAL TO LEVITON CSI20-2
 - DIMMER SWITCHES SHALL BE TESTED WITH FIXTURES AND LAMPS FOR COMPATIBILITY.

REFERENCED CODES IN EFFECT

2014 NATIONAL ELECTRIC CODE

2015 INTERNATIONAL ENERGY CONSERVATION CODE

SHEET INDEX

- | | | |
|----|-------|---------------------------|
| 1. | EL001 | SITE LIGHTING COVER SHEET |
| 2. | EL101 | SITE LIGHTING PLAN |

Site Lighting Design Drawings for

Storage Mart Addition

3920 South State Route 291
Lee's Summit, Jackson County, Missouri

SHEET TITLE

SITE LIGHTING
COVER SHEET

SHEET NUMBER

EL001

EXTERIOR LIGHT FIXTURE SCHEDULE										
TAG	MANUFACTURER (OR EQUAL)	MODEL NUMBER (OR EQUAL)	DESCRIPTION	MOUNTING	LUMEN OUTPUT	CCT (°K)	CRI	VOLTS	WATTS	NOTES
WP1	MCGRAW-EDISON	GWC-AF-02-LED-EI-T4FT-P	WALL PACK	EXTERIOR WALL	12874	4000	70	120	113	MOUNTED ON EXTERIOR WALL, TOP OF FIXTURE AT 15' ABOVE FINISHED GRADE. WITH PHOTOCELL.
WP2	MCGRAW-EDISON	GWC-AF-02-LED-EI-SL3-P	WALL PACK	EXTERIOR WALL	12424	4000	70	120	113	MOUNTED ON EXTERIOR WALL, TOP OF FIXTURE AT 15' ABOVE FINISHED GRADE. WITH PHOTOCELL.
NOTES: 1. VERIFY LIGHT FIXTURE FINISHES WITH OWNER / ARCHITECT PRIOR TO INSTALLATION										

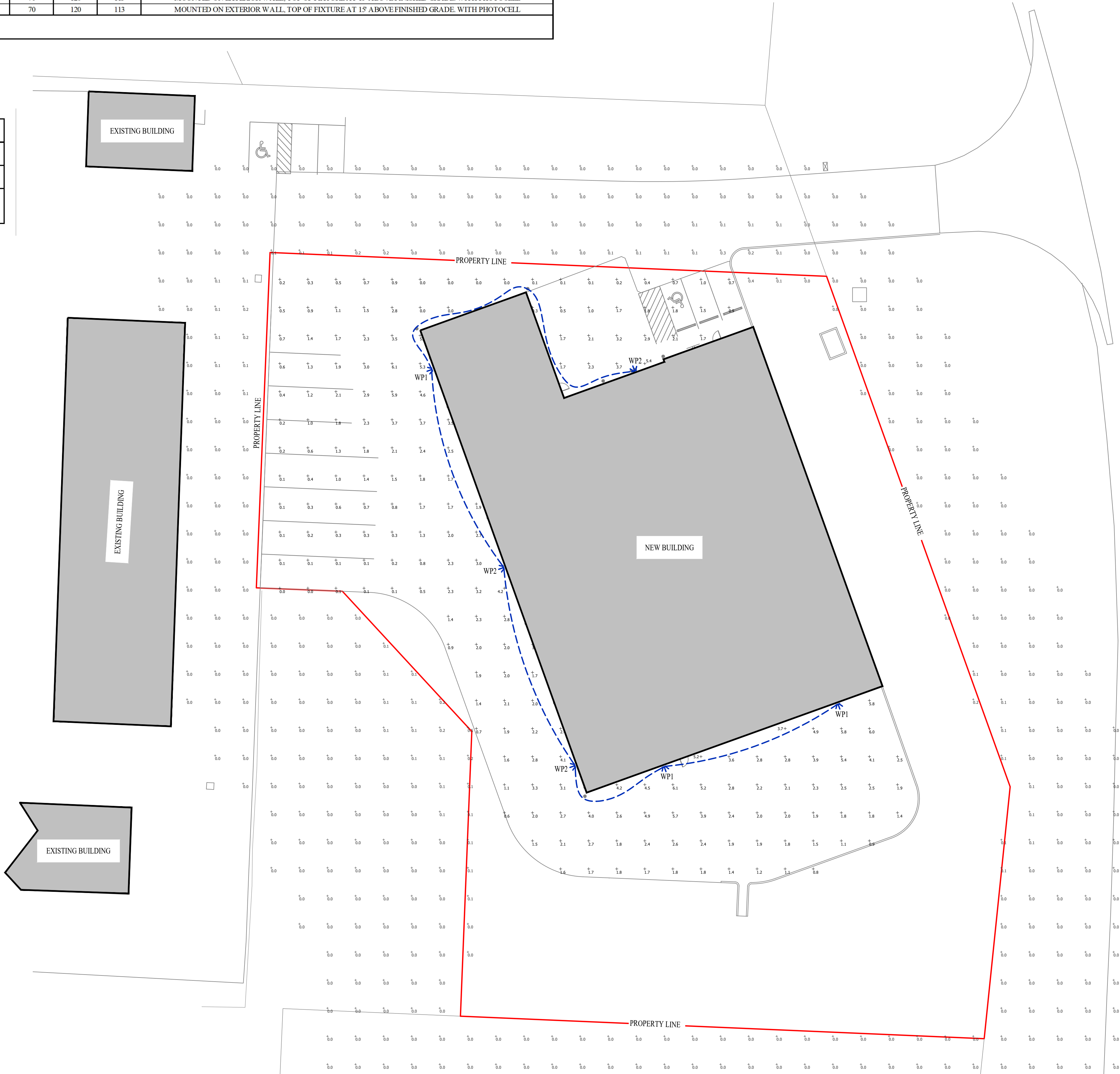
SITE PHOTOMETRIC SUMMARY					
AREA	AVERAGE	MAXIMUM	MINIMUM	MAX / MIN	AVG / MIN
NEW PARKING	1.94 fc	5.1 fc	0.3 fc	17.0:1	6.47:1
NOTES: CALCULATIONS BASED ON 95% OF DATA POINT SOURCES, LOWER 2.5% & UPPER 2.5% OF DATA POINTS OMITTED					

LIGHTING LEGEND

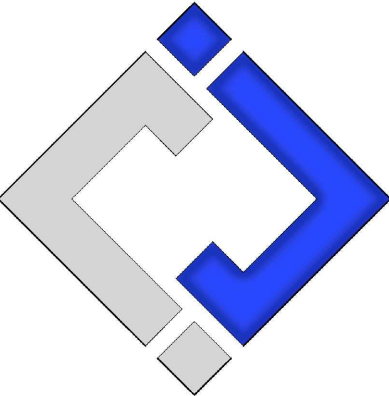
- CIRCUIT WIRING
→ PX-XX CIRCUIT TAG
X1 "X1" INDICATES FIXTURE TYPE (REFER TO SCHEDULE)
↓ EXTERIOR WALL PACK
+ ## PHOTOMETRIC CALCULATIONS (IN FOOT-CANDLES)

SITE LIGHTING PLAN GENERAL NOTES:

- SITE PHOTOMETRIC VALUES SHOWN HAVE BEEN CALCULATED PER SPECIFIED LIGHT FIXTURES AT INDICATED MOUNTING HEIGHTS. ANY CHANGES OR ALTERATIONS TO LIGHTING LAYOUT SHOWN WILL REQUIRE RECALCULATING SITE PHOTOMETRICS AND WILL THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR / EQUIPMENT SUPPLIER.
- PHOTOMETRIC CALCULATIONS SHOWN DO NOT INCLUDE EXISTING LIGHT FIXTURE(S), ONLY NEW WALL-PACK FIXTURE(S) SHOWN.



James Watson, P.E. May 17, 2019
PE-2015017071
MO Certificate of Authority # 2018029680



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J2 PROJECT No: J20038

J2 DESIGN: JAP

ISSUE TITLE DATE

PERMIT SET 05 - 17 - 2019



TABLE 3. (continued)

SLOPE 1/2:12

2nd FLOOR PLAN
SCALE: 1/8" = 1'-0"

SCALE: 1/8" = 1'-0"

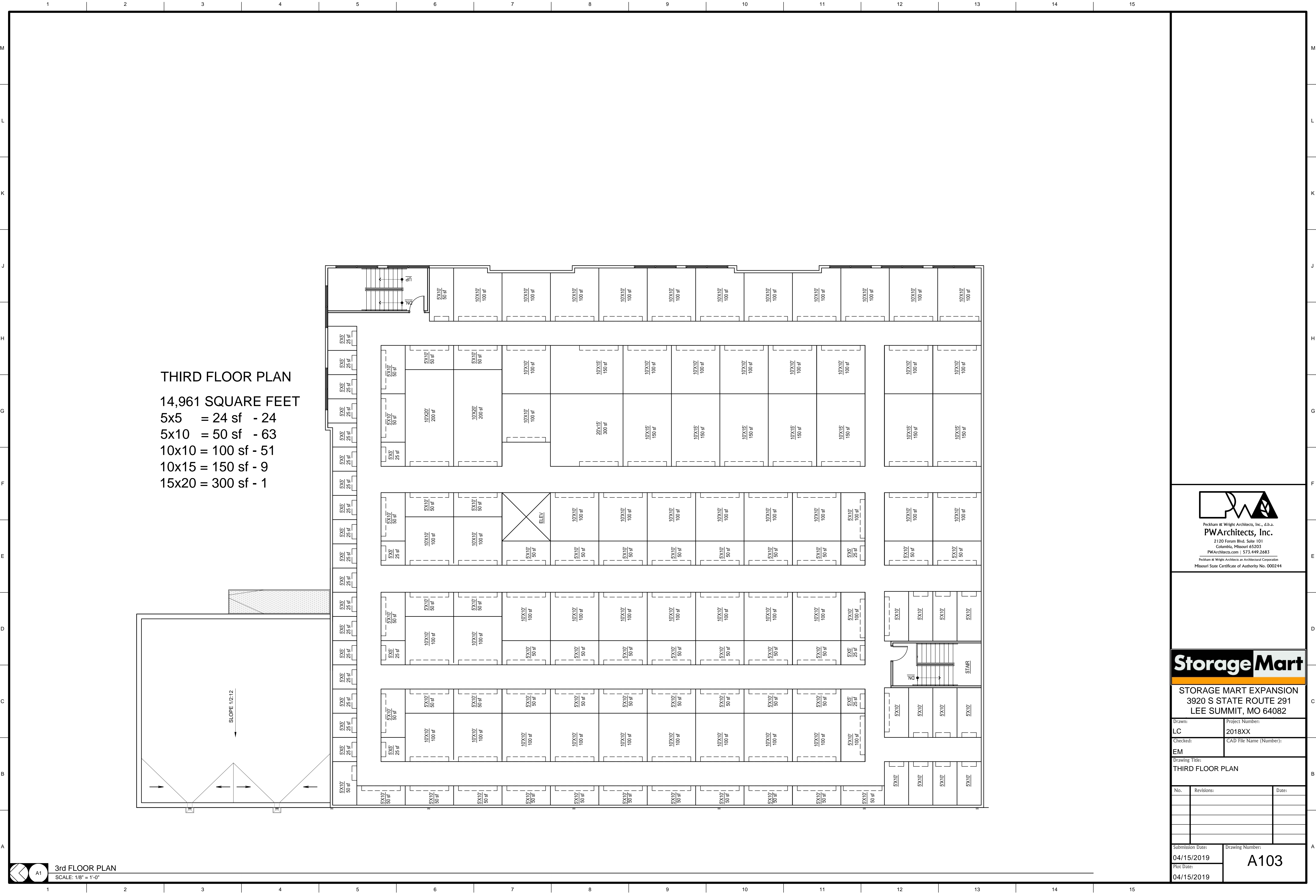


STORAGE MART EXPANSION
3920 S STATE ROUTE 291
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SECOND FLOOR PLAN

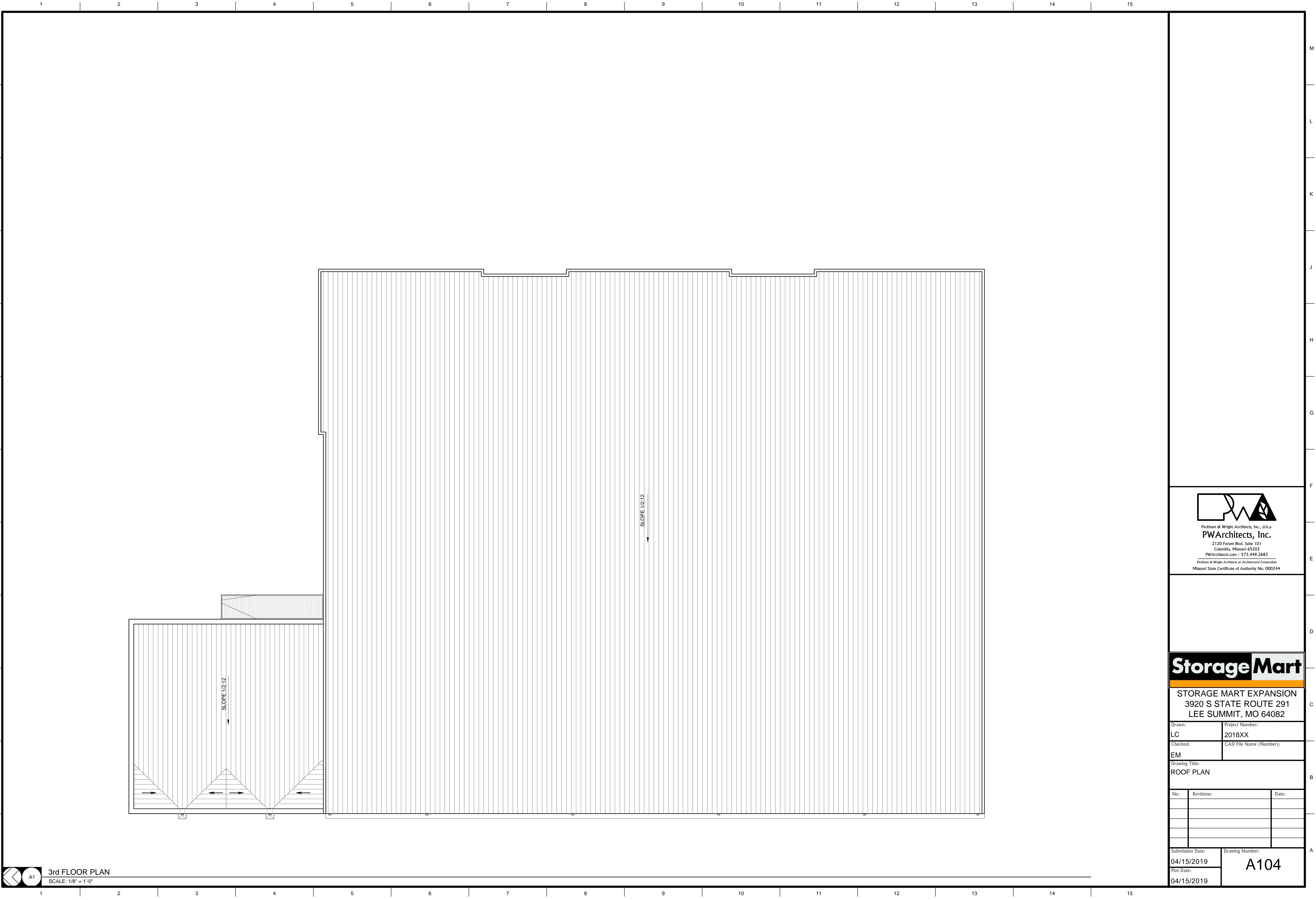
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A102

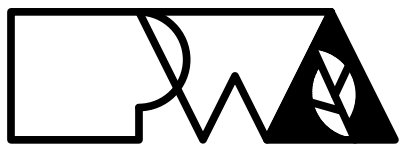


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Drawn: LC		Project Number: 2018XX	
Checked: EM		CAD File Name (Number):	
Drawing Title: THIRD FLOOR PLAN			
No.	Revisions:	Date:	
Submission Date: 04/15/2019		Drawing Number: A103	
Plot Date: 04/15/2019			



3rd FLOOR PLAN
SCALE: 1/8" = 1'-0"



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Storage Mart

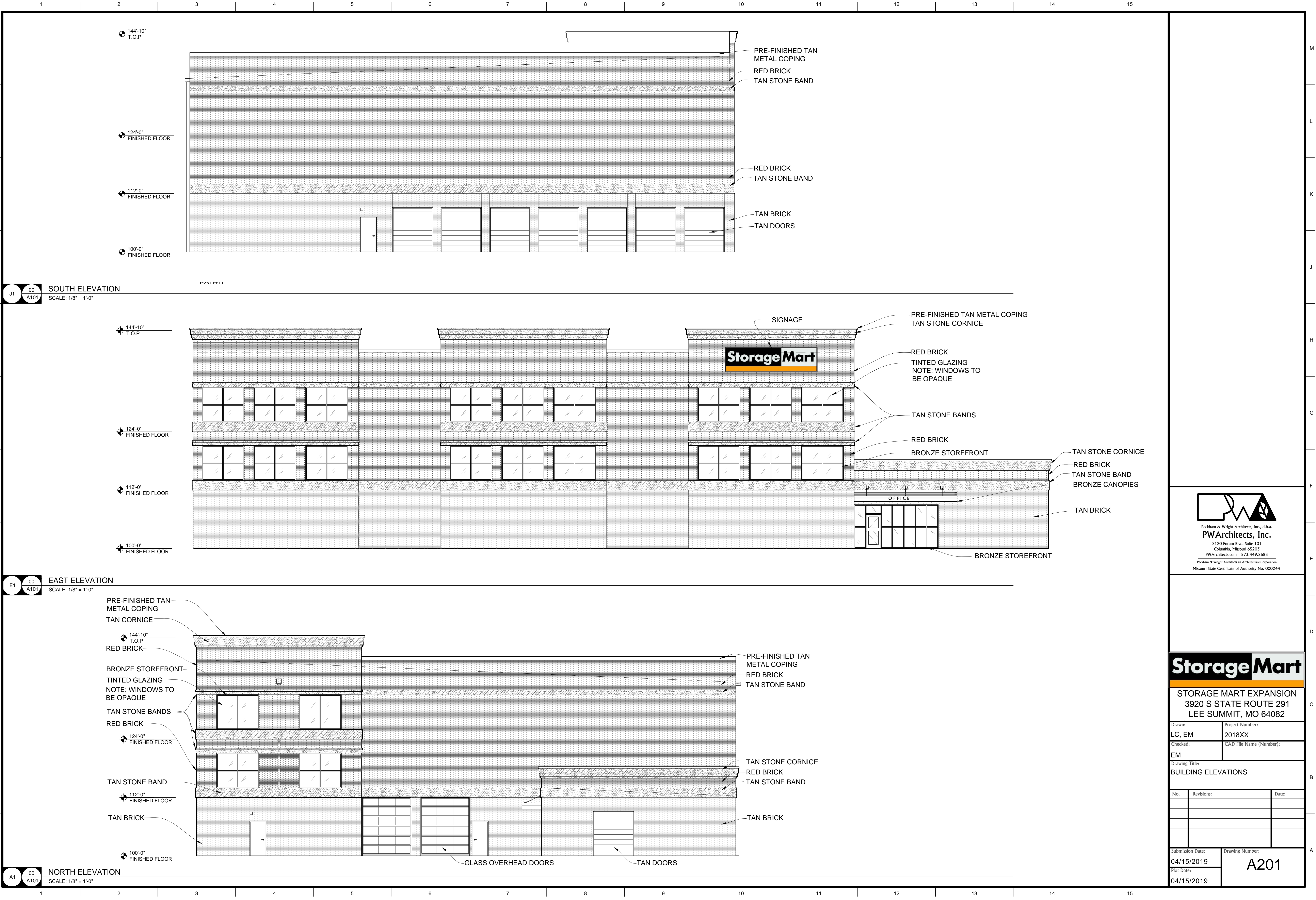
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Drawn:	Project Number:
LC	2018XX
Checked:	CAD File Name (Number):
EM	

Drawing Title:
ROOF PLAN

No.	Revisions:	Date:

Submission Date:	Drawing Number:
04/15/2019	A104
Plot Date:	
04/15/2019	

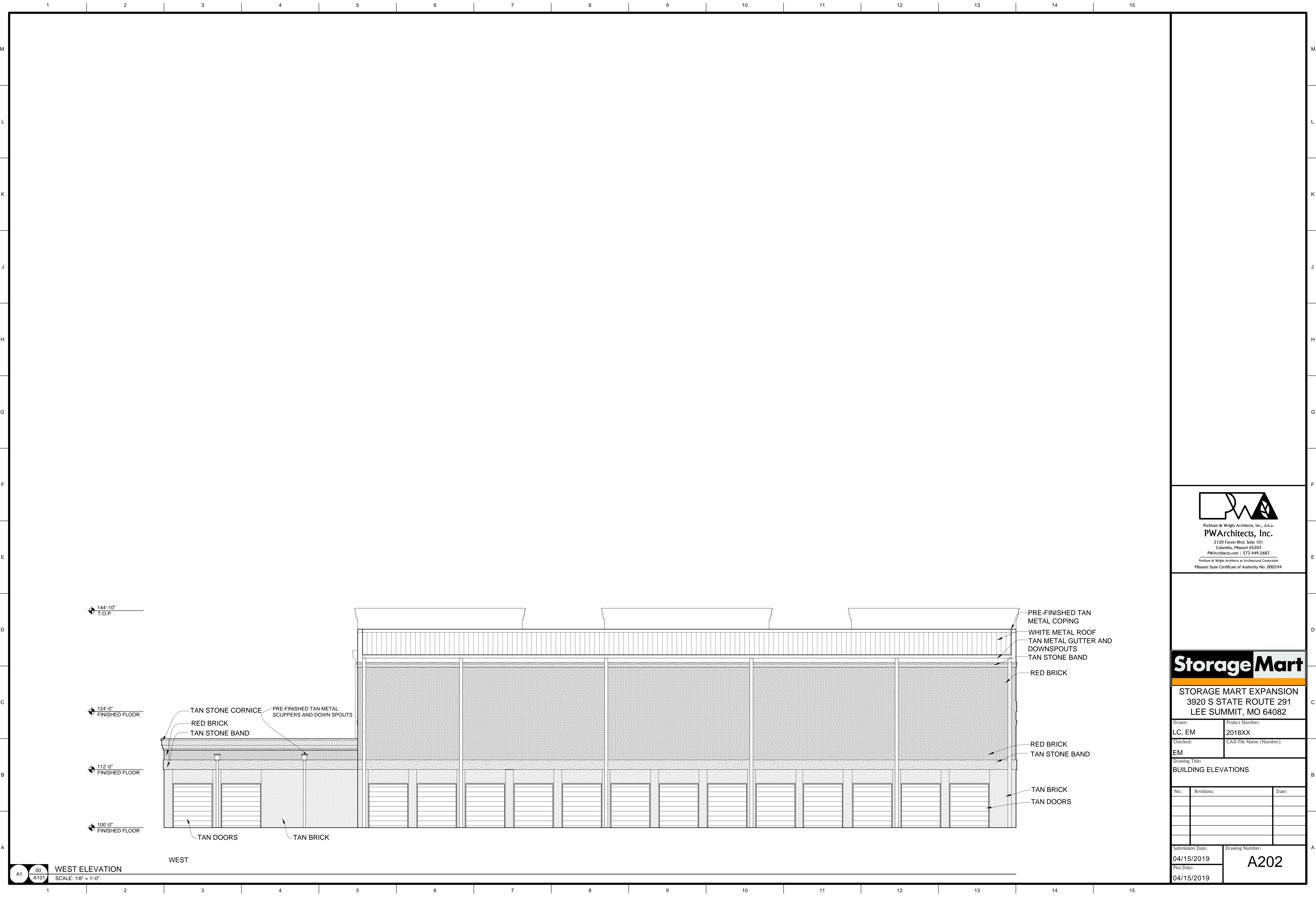



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Drawn: LC, EM		Project Number: 2018XX
Checked: EM		CAD File Name (Number):
Drawing Title: BUILDING ELEVATIONS		
No.	Revisions:	Date:
Submission Date: 04/15/2019	Drawing Number: A201	
Plot Date: 04/15/2019		




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Drawn: LC, EM	Project Number: 2018XX
Checked: EM	CAD File Name (Number):

Drawing Title:
BUILDING ELEVATIONS

No.	Revisions:	Date:

Submission Date: 04/15/2019	Drawing Number: A202
Plot Date: 04/15/2019	