Tailormade Landing

Final Development Plan

SEC-17 TWP-47 RNG-31 SE 1/4 NE 1/4

LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

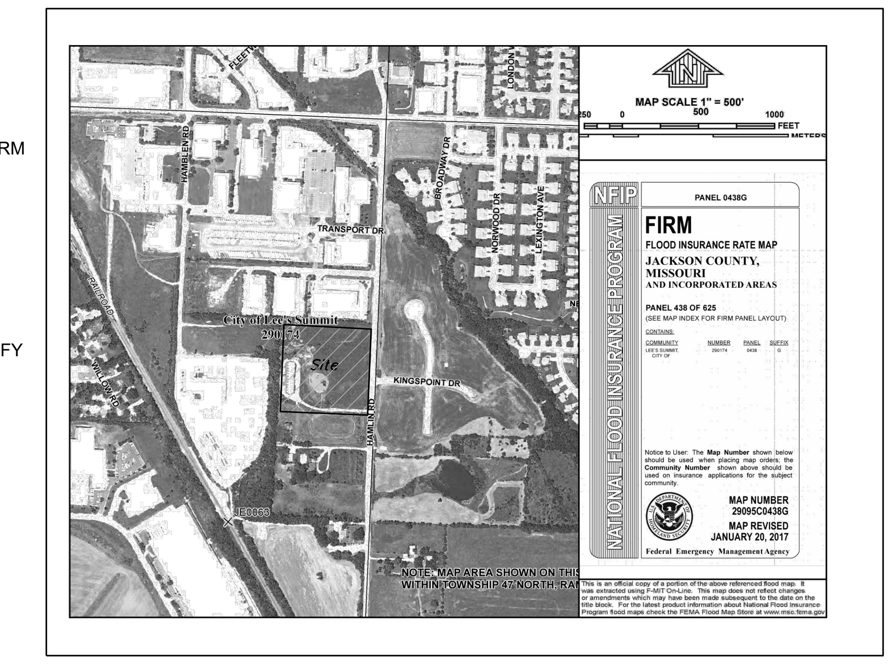
GENERAL NOTES:

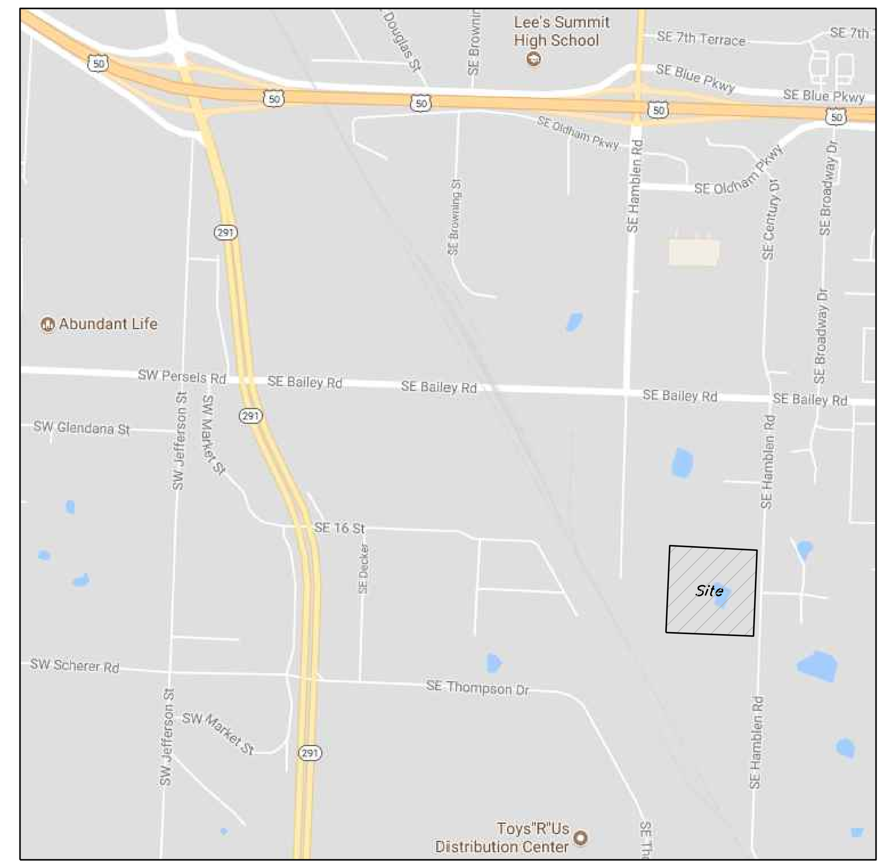
1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
2 ~ ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED BY SEPARATE DOCUMENT
3 ~ ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR BY SEPARATE INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.
4 ~ THE CONTRACTOR SHALL NOTIFY THE CITY OF LEE'S SUMMIT PUBLIC WORKS INSPECTION AT 816.969.1800 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
5 ~ THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS PROPOSED BY THESE PLANS AND SITE CONDITIONS.
6 ~ THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.

UTILITY COMPANIES:

THE FOLLOWING LIST OF UTILITY COMPANIES IS PROVIDED FOR INFORMATION ONLY. WE DO NOT OFFER ANY GUARANTEE OR WARRANTY THAT THIS LIST IS COMPLETE OR ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION AND VERIFYING THE ACTUAL LOCATION OF EACH UTILITY LINE. THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH PROPOSED IMPROVEMENTS.

KCP&L ~ 298-1196
SPIRE ~ 314-342-0500
SOUTHWESTERN BELL TELEPHONE ~ 761-5011
COMCAST CABLE ~ 795-1100
WILLIAMS PIPELINE ~ 422-6300
CITY OF LEE'S SUMMIT PUBLIC WORKS ~ 969-1800
CITY OF LEE'S SUMMIT PUBLIC WORKS INSPECTIONS ~ 969-1800
CITY OF LEE'S SUMMIT WATER UTILITIES ~ 969-1900
MISSOURI ONE CALL (DIG RITE) ~ 1-800-344-7483





Vicinity Map

North

FINAL DEVELOPENT PLAN

SCALE: 1" = 50'

INDEX OF SHEETS:

C.001 ~ COVER SHEET
C.050 ~ PRE-CLEARING PLAN
C.051 ~ INACTIVE AREA STABILIZATION PLAN
C.052 ~ FINAL RESTORATION PLAN
C.053 ~ EROSION CONTROL DETAILS
C.100 ~ SITE PLAN
C.101 ~ DIMENSION PLAN
C.200 ~ GRADING PLAN
C.201 ~ SPOT ELEVATION PLAN
C.300 ~ STORM SEWER GENERAL PLAN
C.301 ~ STORM SEWER PLAN & PROFILE
C.302 ~ ROOF DRAINAGE PLAN
C.400 ~ SANITARY SEWER STUB GENERAL LAYOUT
C.401 ~ SANITARY STUB PLAN AND PROFILE
C.500 ~ WATER PLAN
C.501 ~ WATER PLAN & PROFILE
C.502 ~ WATER PLAN & PROFILE
C.600 ~ DETAIL SHEET
C.601 ~ DETAIL SHEET
C.602 ~ DETAIL SHEET
C.603 ~ DETAIL SHEET

PROPERTY DESCRIPTION

Williams Crossing Lot 2

Site Impervious Area

Total Area	360,952.89 sq. ft. (8.29 acres)
Floor/Area Ratio	0.036%
Building	13,199 sq. ft.
Parking/Sidewalk	29,492 sq. ft
Impervious Area	42,691 sq. ft (12% of Site)
Parking Spaces	21 Standard / 2 Handicap

Site Improvement Notes

Sanitary Sewer Improvements
-The site will require a sanitary service from the existing sanitary to the east.

Water Main Improvements
-The existing 8" water main locate to the east of Hamblen Road.

Storm Sewer
-Enclosed pipe systems and inlets will collected and convey the onsite storm water runoff and direct it toward the new detention facility located at the northeast corner of the site. The storm sewer shall be designed to convey the 10 year storm event and the building runoff will be collected and directed into the enclosed pipe system.

Storm Water Detention
-The site will be designed to control the storm water runoff per the current standards as set forth in APWA Section 5600. The system will be an open aired basin and release into the existing storm of Hamblen Road.

Storm Water Quality Elements
-The detention system will incorporate an infiltration system into the bottom of the basin to provide the opportunity for infiltration back into the existing ground. The system will be designed to handle and control the 2 year storm flows and will consist of a gravel base and filter fabric located on the eastern side of the site will be converted into a infiltration system to control the storm.

Hamblen Road
-No improvements are anticipated for Hamblen Road

Detention Basin design is for entire site full build out.

All future lots and tracts to be completed with another application. Shown for reference only.

CONSTRUCTION AND DESIGN NOTES:

STREET & STORM SEWERS:

1 ~ STREET PAVEMENT SHALL CONSIST OF TYPE CG-2 CURBS WITH PAVEMENT PER TABLE LS-2 OF THE LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL
OPTION 1) 4" TYPE II ASPHALT BASE AND 2" TYPE III ASPHALT SURFACE OVER A 6" MoDOT TYPE 5 BASE AND A SUBGRADE MIXTURE OF 6" FLY ASH STABILIZED SUBGRADE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
OPTION 2) 4" TYPE II ASPHALT BASE AND 2" TYPE III ASPHALT SURFACE OVER 6" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID MEETING THE REQUIREMENTS OF TABLE 2201.6-1

2 ~ RESIDENTIAL STREETS SHALL BE PER APWA STANDARD FOR 50' R/W TYPICAL SECTION TABLE LS-2 SECTION 5200 (RESIDENTIAL LOCAL STREET). RESIDENTIAL STREETS SHALL BE PER APWA STANDARD FOR 60' R/W TYPICAL SECTION TABLE LS-2 SECTION 5200 (RESIDENTIAL COLLECTOR).

3 ~ STORM SEWER PIPE SHALL BE HIGH DENSITY POLYETHYLENE (HDPE) AS APPROVED BY CITY OF LEES SUMMIT DESIGN AND CONSTRUCTION MANUAL.

4 ~ JUNCTION BOXES SHALL BE PER CITY OF LEES SUMMIT STANDARD DRAWING NO. JB-1. FIELD INLETS SHALL BE PER CITY OF LEES SUMMIT STANDARD DRAWING FI-1. TOEWALLS SHALL BE PER CITY OF LEES SUMMIT DRAWING NO. SD-35. STORM MANHOLES SHALL BE PER CITY OF LEES SUMMIT DETAIL SD-27. ROCK LINING AND RIP RAP SHALL BE PER CITY OF LEES SUMMIT.

WATER:

1 ~ THE CONTRACTOR SHALL NOTIFY THE CITY OF LEE'S SUMMIT WATER UTILITIES DEPARTMENT AT 816.969.1900 AT LEAST 48 HOURS PRIOR TO CONNECTING TO ANY EXISTING WATER MAIN.

2 ~ ALL WATER MAINS SHALL COMPLY WITH ANSI/AWWA C150/A21.50 AND C151/A21.51, AND CITY OF LEES SUMMIT STANDARDS.

3 ~ FIRE HYDRANTS SHALL BE OPTIC YELLOW WATEROUS "PACER" MODEL NO. WB-67-250 WITH NON-RISING STEM OR CITY ENGINEER APPROVED EQUAL. HYDRANTS SHALL HAVE A 5 1/4" VALVE WITH A 4 1/2" PUMPER NOZZLE AND 2 - 2 1/2" HOSE NOZZLES (LEFT HAND OPENING).

4 ~ GATE VALVES SHALL BE MUELLER NO. A 2380-5 HUB END "O" RING SEAL NON-RISING STEM. VALVES 12" OR LARGER SHALL BE BUTTERFLY VALVES MANUFACTURED BY THE HENRY PRATT COMPANY OR CITY ENGINEER APPROVED EQUAL. LEFT HAND OPENING. MINIMUM 200# TESTING AWWA.

5 ~ VALVE BOXES SHALL BE CLAY & BAILEY NO. P-108 OR CITY ENGINEER APPROVED EQUAL. ALL VALVE BOXES SHALL BE LOCATED OUT OF EXISTING OR PROPOSED PAVEMENT AREAS.

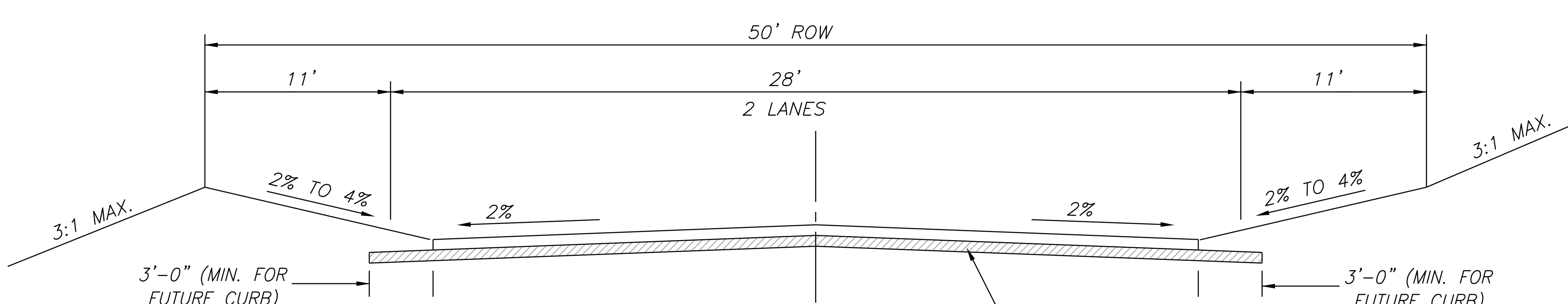
6 ~ ALL WATER MAINS SHALL BE CONSTRUCTED WITH A MINIMUM COVER OF 42 INCHES. STREET GRADING SHALL BE COMPLETED PRIOR TO BEGINNING CONSTRUCTION OF WATER MAINS.

7 ~ ALL BENDS, TEES AND FIRE HYDRANTS SHALL BE INSTALLED WITH SUITABLE CONCRETE THRUST BLOCKS POURED IN PLACE AGAINST UNDISTURBED EARTH AND PER CITY OF LEES SUMMIT AND APWA STANDARDS.

8 ~ THE MINIMUM SEPARATION BETWEEN THE PROPOSED WATER MAIN AND SANITARY OR STORM SEWERS IS AS FOLLOWS:
A ~ SANITARY SEWERS: HORIZONTAL = 10 FEET - VERTICAL = 18 INCHES
B ~ STORM SEWERS: HORIZONTAL = 5 FEET - VERTICAL = 18 INCHES
THESE SEPARATIONS SHALL PREVAIL OVER ANY DATA SHOWN IN THESE PLANS AND THE CONTRACTOR SHALL INSTALL BENDS OR OTHER FITTINGS AS NECESSARY TO ACHIEVE THE REQUIRED SEPARATIONS.

GENERAL NOTES:

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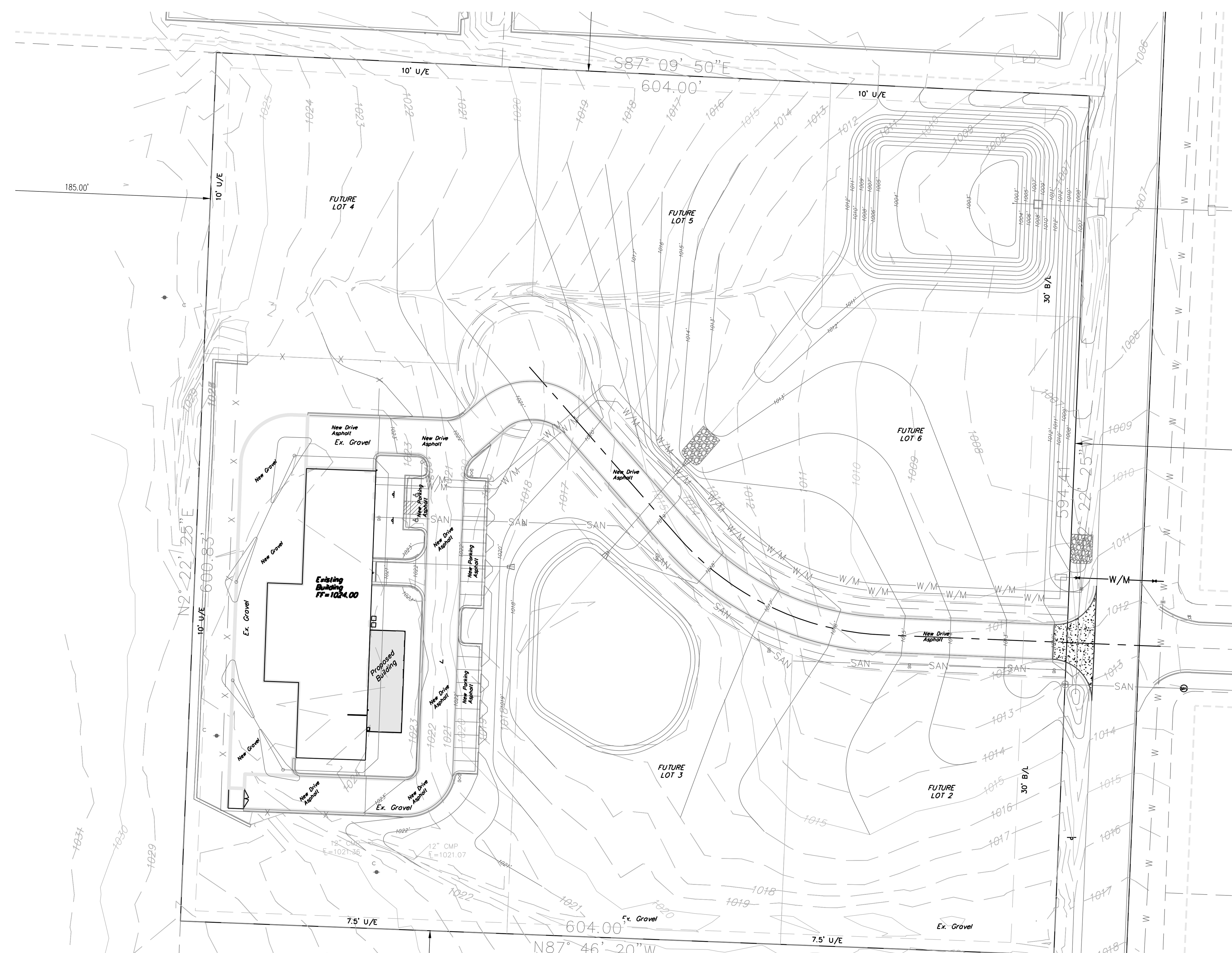
Option #1
4" TYPE II ASPHALT BASE AND 2" TYPE III ASPHALT SURFACE OVER A 6" MoDOT TYPE 5 BASE AND A SUBGRADE MIXTURE OF 6" FLY ASH STABILIZED SUBGRADE IN ACCORDANCE WITH THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.

Option #2
4" TYPE II ASPHALT BASE AND 2" TYPE III ASPHALT SURFACE OVER 10" MoDOT TYPE 5 BASE OVERTOP A BIAXIAL GEOGRID MEETING THE REQUIREMENTS OF TABLE 2201.6-1

TYPICAL SECTION
(RESIDENTIAL STREET)
N.T.S.

OIL - GAS WELLS
ACCORDING TO EDWARD ALTON'S ENVIRONMENTAL IMPACT STUDY OF ABANDONED OIL AND GAS WELLS IN LEE'S SUMMIT, MISSOURI IN 1995, THERE ARE NOT OIL AND GAS WELLS WITHIN 185 FEET OF THE PROPERTY AS SURVEYED HEREON.

FLOOD INFORMATION:
SITE IS LOCATED ON MAP NUMBER 29095C0438G, PANEL 438G, DATED JANUARY 20, 2017 AS INDICATED WITH THE THIS MAP NO PORTION OF THE SITE IS LOCATED WITHIN THE FLOOD ZONE.



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Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Project: 1600 SE HAMBLEN RD LEES SUMMIT MO
Issue Date: August 4, 2017

COVER SHEET
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS
REV. 12-14-17
REV. 01-03-18

PRE CLEARING PLAN

SCALE: 1" = 40'

0 20' 40' 80'

North

NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

SF-1 — SILT FENCE PROTECTION TO BE MAINTAINED BY CONTRACTOR

LEGEND

PHASE 1 SILT FENCE ——SF-1——SF-1——

PHASE 2 SILT FENCE ——SF-2——SF-2——

DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5111.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.

College West I Holdings, LLC
Lot 3B
Lees Summit South Industrial Park Replat of Lot 3, 3rd Plat
ZONED: PI
LAND USE: Warehouse Storage

Ridgway Properties, LLC
Lot 3C
Lees Summit South Industrial Park Replat of Lot 3, 3rd Plat
ZONED: PI
LAND USE: Warehouse Storage

NEWBERRY INVESTMENTS LLC
NEWBERRY LANDINGS FIRST PLAT---LOT
ZONED: PI
LAND USE: Unimproved Commercial Land

NEWBERRY INVESTMENTS LLC
NEWBERRY LANDINGS FIRST PLAT---LOT 25
ZONED: PI
LAND USE: Unimproved Commercial Land

Perimeter Silt Fence Must Be Installed Prior to Any Land Disturbance Activities Per APWA Detail ESC-11. (Typ.)

S87° 09' 50"E 604.00'

S2° 22' 25"E 600.23'

S2° 22' 25"W 594.41'

N87° 46' 20"W 604.00'

LIMITS OF DISTURBANCE

Temporary Construction Entrance Must Be Installed Prior to Any Land Disturbance Activities Per APWA Detail ESC-01.

Existing Building FF=1024.00

EX. POND

TRACT A

AQUILA INC
Unplatted
ZONED: PI
LAND USE: Utility

TAILOR MADE EXTERIORS LLC
WILLIAMS CROSSING LOT 2
Zoned: AG
Existing Land Use: Agriculture Homesite
Proposed Land Use:

WILLIAMS CARLTON N JR &
Lot 1
William's Crossing
Zoned: AG
Land Use: Agriculture Homesite

DRIENIK INVESTMENTS LLC
NEWBERRY LANDINGS FIRST PLAT---LOT 299
ZONED: PI
LAND USE: Unimproved Commercial Land

DRIENIK INVESTMENTS LLC
NEWBERRY LANDINGS FIRST PLAT---LOT 2
ZONED: PI
LAND USE: Unimproved Commercial Land

Field Inlet
Top= 1006.32'
FL (E) = 1001.82' (34" x 53")

Field Inlet
Top= 1005.30'
FL (W) = 1001.05' (34" x 53")
FL (E) = 998.90' (42" HDPE)

Curb Inlet
Top= 1010.00'

#47-116
Existing Manhole
Top= 1013.06'
FL(E)Out = 1005.55'

c/l SE Hamblen Road
50' R/W

c/l SE Kingspoint Drive
50' R/W

Fire Hydrant

Existing 8" Sanitary

Perimeter Silt Fence Must Be Installed Prior to Any Land Disturbance Activities Per APWA Detail ESC-11. (Typ.)

Ex. Gravel

Chain Link Fence

Tree Line

Wood Fence

Power Pole

Guy Wire

Awning

Swale

Existing Underground Telephone

30' B/L

75' U/E

10' U/E

Sprinkler Valve

Sign

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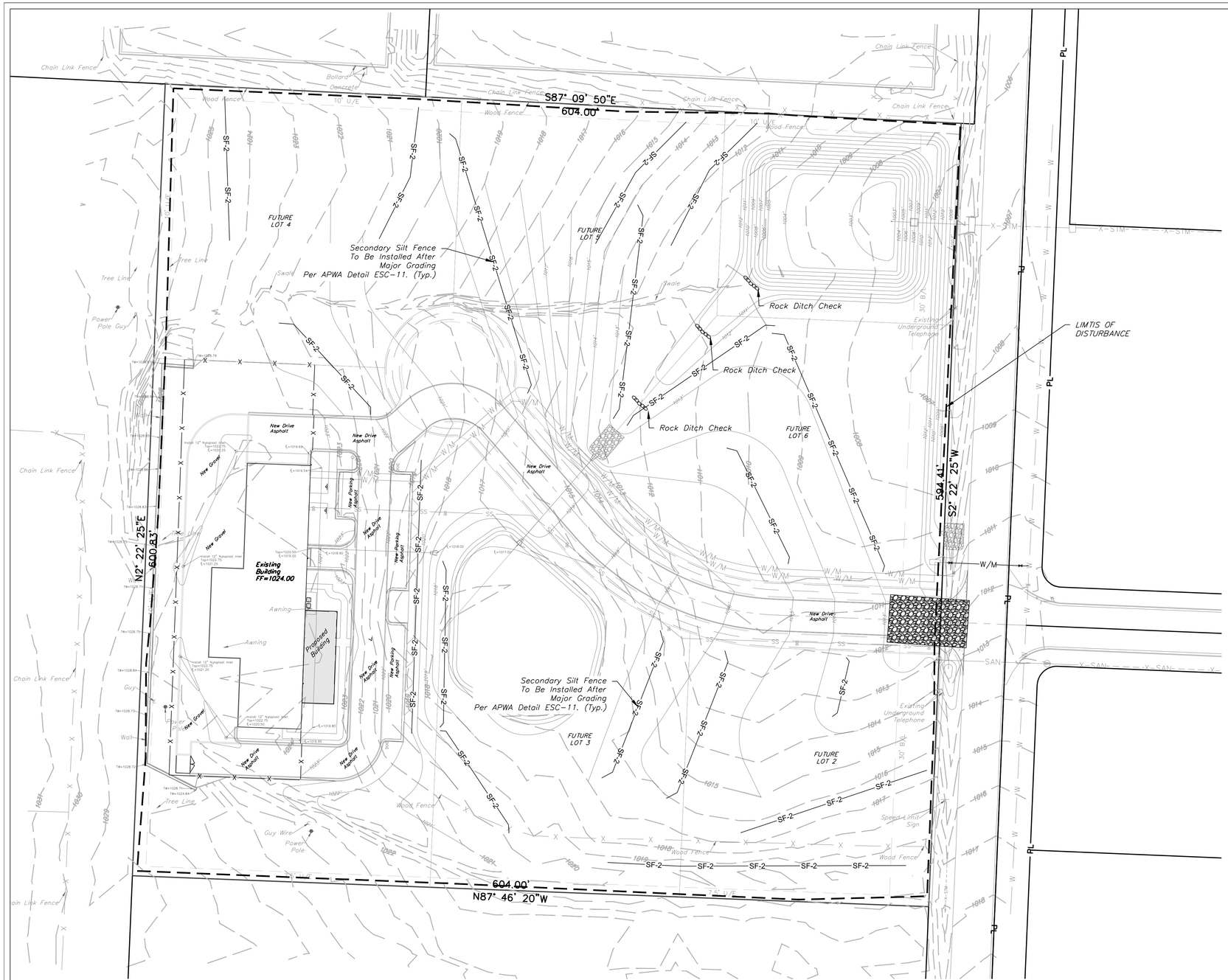
Pre-Clearing Plan
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
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REVISIONS

REV. 12-14-17

REV. 01-03-18



0 20' 40' 80'

INACTIVE AREA STABELIZATION PLAN

SCALE: 1" = 40'

North

NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

EROSION CONTROL DESCRIPTION:

1.) SILT FENCE SHALL BE PLACE AT THE PERIMETER OF THE GRADING AND AT INTERMEDIATE AREAS THROUGHOUT THE SITE AS SHOWN ON THE PLAN. INLET SEDIMENT TRAPS SHALL BE PLACED SURROUNDING ALL STORM INLETS

2.) INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON PLAN

EROSION CONTROL PROCEDURE:

1.) SILT FENCE AND TEMPORARY CONSTRUCTION ENTRANCE SHALL BE INSTALLED AT THE PERIMETER OF THE GRADED AREAS PRIOR TO BEGINNING OF CLEARING OR DEMOLITION OPERATIONS. THE CONTRACTOR SHALL INSTALL SILT FENCE AS SHOWN ON PLANS AS GRADING PROGRESSES.

TEMPORARY CONSTRUCTION ENTRANCE NOTES:

A.) INSTALLATION
1.) AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC STREETS. IF POSSIBLE, LOCATE WHERE PERMANENT ROADS WILL EVENTUALLY BE CONSTRUCTED
2.) REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE AND CROWN FOR POSITIVE DRAINAGE.
3.) IF SLOPE TOWARDS THE PUBIC ROAD EXCEED 2% CONSTRUCT A 6 TO 8 INCH HIGH RIDGE WITH 3H : 1V SIDE SLOPES ACROSS THE FOUNDATION APPROXIMATELY 15 FEET FROM THE EDGE OF THE PUBLIC ROAD TO DIVERT RUNOFF AWAY FROM IT.
4.) INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES ALONG PUBLIC ROADS
5.) PLACE STONE TO DIMENSIONS AND GRADES AS SHOWN ON PLANS. LEAVE SURFACE SMOOTH AND SLOPED FOR DRAINAGE
6.) DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE
7.) IF WET CONDITIONS ARE ANTICIPATED PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY

B.) TROUBLESHOOTING
1.) CONSULT WITH A QUALIFIED DESIGN PROFESSIONAL IF ANY OF THE FOLLOWING OCCUR:
-INADEQUATE RUNOFF CONTROLS TO THE EXTENT THAT SEDIMENT WASHES ONTO PUBLIC ROADS
- INSTALL DIVERSIONS OR OTHER RUNOFF CONTROL MEASURES
-SMALL STONE, THIN PAD, OR ABSENCE OF GEOTEXTILE FABRIC RESULTS IN RUTS AND MUDDY CONDITIONS AS STONE IS PRESSED INTO SOIL - INCREASE STONE SIZE OR PAD THICKNESS OR ADD GEOTEXTILE FABRIC
-PAD TOO SHORT FOR HEAVY CONSTRUCTION TRAFFIC - EXTEND PAD BEYOND THE MINIMUM 50 FOOT LENGTH AS NECESSARY

C.) INSPECTION AND MAINTENANCE
1.) INSPECT STONE PAD AND SEDIMENT DISPOSAL AREA WEEKLY AND AFTER ANY RAIN EVENT
2.) RESHAPE PAD AS NEEDED FOR PROPER DRAINAGE AND RUNOFF CONTROL
3.) TOP DRESS WITH CLEAN 2 AND 3 INCH STONE AS NEEDED
4.) IMMEDIATELY REMOVE MUD OR SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADWAY. REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY
5.) REMOVE ALL TEMPORARY ROAD MATERIALS FROM AREAS WHERE PERMANENT VEGETATION WILL BE ESTABLISHED

MAINTENANCE:

TO MAINTAIN THE EROSION AND SEDIMENT CONTROLS, THE FOLLOWING PROCEDURES WILL BE PERFORMED:
SEDIMENT CAPTURE DEVICES: SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC FENCES, WHEN THE DEPTH OF ACCUMULATED SEDIMENT REACHES ABOUT ONE-THIRD THE HEIGHT OF THE STRUCTURE.
STORM SEWER INLETS: ANY SEDIMENT IN THE STORM SEWER INLETS WILL BE REMOVED AND DISPOSED OF PROPERLY.
TEMPORARY CONTROLS: ALL TEMPORARY CONTROLS WILL BE REMOVED AFTER THE DISTURBED AREAS HAVE BEEN STABILIZED.

INSPECTION PROCEDURES:

INSPECTIONS WILL BE DONE BY THE RESPONSIBLE PERSON(S) AT LEAST ONCE EVERY WEEK AND WITHIN 24 HOURS EACH STORM EVENT PRODUCING ANY AMOUNT OF RAINFALL. AREAS THAT HAVE BEEN RESEEDED WILL BE INSPECTED REGULARLY AFTER SEED GERMINATION TO ENSURE COMPLETE COVERAGE OF EXPOSED AREAS. DISTURBED AREAS THAT HAVE NOT BEEN FINALLY STABILIZED SHALL HAVE ALL POLLUTION CONTROL MEASURES INSPECTED FOR PROPER INSTALLATION, OPERATION AND MAINTENANCE. LOCATIONS WHERE STORM WATER LEAVES THE SITE SHALL BE INSPECTED FOR EVIDENCE OF EROSION OR SEDIMENT DEPOSITION. ANY DEFICIENCIES SHALL BE NOTED IN A REPORT OF THE INSPECTION AND CORRECTED WITHIN SEVEN CALENDAR DAYS OF THE INSPECTION. THE PERMITTEE SHALL PROMPTLY NOTIFY THE SITE CONTRACTORS RESPONSIBLE FOR OPERATION AND MAINTENANCE OF POLLUTION CONTROL DEVICES OF DEFICIENCIES.

IF THE EXISTING GROUND COVER IS NATURAL GRASS. DISTURBED AREAS SHALL BE TEMPORARILY SEEDED WITH WHEAT/RYE AT A RATE OF 1.5 POUNDS PER 1000 SQUARE FEET. PERMANENT SEEDING SHALL CONSIST OF 90% IN THREE EQUAL PARTS OF THIN BLADE, TURF-TYPE, TALL FESCUE AND 10% BLUEGRASS SEED AT A RATE OF 10 POUNDS PER 1000 SQUARE FEET. BOTH TEMPORARY AND PERMANENT SEEDED AREAS SHALL BE MULCHED AND WATERED TO MAINTAIN THE PROPER MOISTURE LEVEL OF THE SOIL TO ESTABLISH GRASS. NEW GRASS SHALL BE WATERED AND MAINTAINED UNTIL IT REACHES A HEIGHT OF 3 INCHES. ANY BARE AREAS SHALL BE RESEEDED.

ALL EROSION CONTROL DEVICES SHALL BE REMOVED BY GENERAL CONTRACTOR AFTER SITE STABILIZATION IS COMPLETE AND APPROVED BY ENGINEER.

THE DEVELOPER WILL DESIGNATE A QUALIFIED PERSON OR PERSONS TO PERFORM THE FOLLOWING INSPECTIONS:
STABILIZATION MEASURES: DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION WILL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. AFTER A PORTION OF THE SITE IS FINALLY STABILIZED, INSPECTIONS WILL BE CONDUCTED AT LEAST ONCE EVERY MONTH THROUGHOUT THE LIFE OF THE PROJECT. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.
STRUCTURAL CONTROLS: FILTER FABRIC FENCES AND ALL OTHER EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN WILL BE INSPECTED REGULARLY FOR PROPER POSITIONING, ANCHORING, AND EFFECTIVENESS IN TRAPPING SEDIMENTS. SEDIMENT WILL BE REMOVED FROM THE UPSTREAM OR UPSLOPE SIDE OF THE FILTER FABRIC. CONTRACTOR CAN CONTACT ENGINEERING SOLUTIONS FOR COPIES OF THE INSPECTION FORM TO BE USED FOR STABILIZATION MEASURES.
DISCHARGE POINTS: DISCHARGE POINTS OR LOCATIONS WILL BE INSPECTED TO DETERMINE WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT AMOUNTS OF POLLUTANTS FROM ENTERING RECEIVING WATERS.
CONSTRUCTION ENTRANCE: LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE WILL BE INSPECTED FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING.

A LOG OF EACH INSPECTION SHALL BE KEPT. THE INSPECTION REPORT IS TO INCLUDE THE FOLLOWING MINIMUM INFORMATION: INSPECTOR'S NAME, DATE OF INSPECTION, OBSERVATIONS RELATIVE TO THE EFFECTIVENESS OF THE POLLUTION CONTROL DEVICES, ACTIONS TAKEN OR NECESSARY TO CORRECT DEFICIENCIES, AND LISTING OF AREAS WHERE LAND DISTURBANCE OPERATIONS HAVE PERMANENTLY OR TEMPORARILY STOPPED. THE INSPECTION REPORT SHALL BE SIGNED BY THE PERMITTEE OR BY THE PERSON PERFORMING THE INSPECTION IF DULY AUTHORIZED TO DO SO.

SF-1 SILT FENCE PROTECTION TO BE MAINTAINED BY CONTRACTOR

LEGEND

PHASE 1 SILT FENCE ——SF-1——SF-1——

PHASE 2 SILT FENCE ——SF-2——SF-2——

DURING ALL PHASES OF CONSTRUCTION, INACTIVE AREA STABILIZATION METHODS AS DESCRIBED IN APWA SECTION 5111.3 SHALL BE USED TO CONTROL EROSION AND SILTATION.

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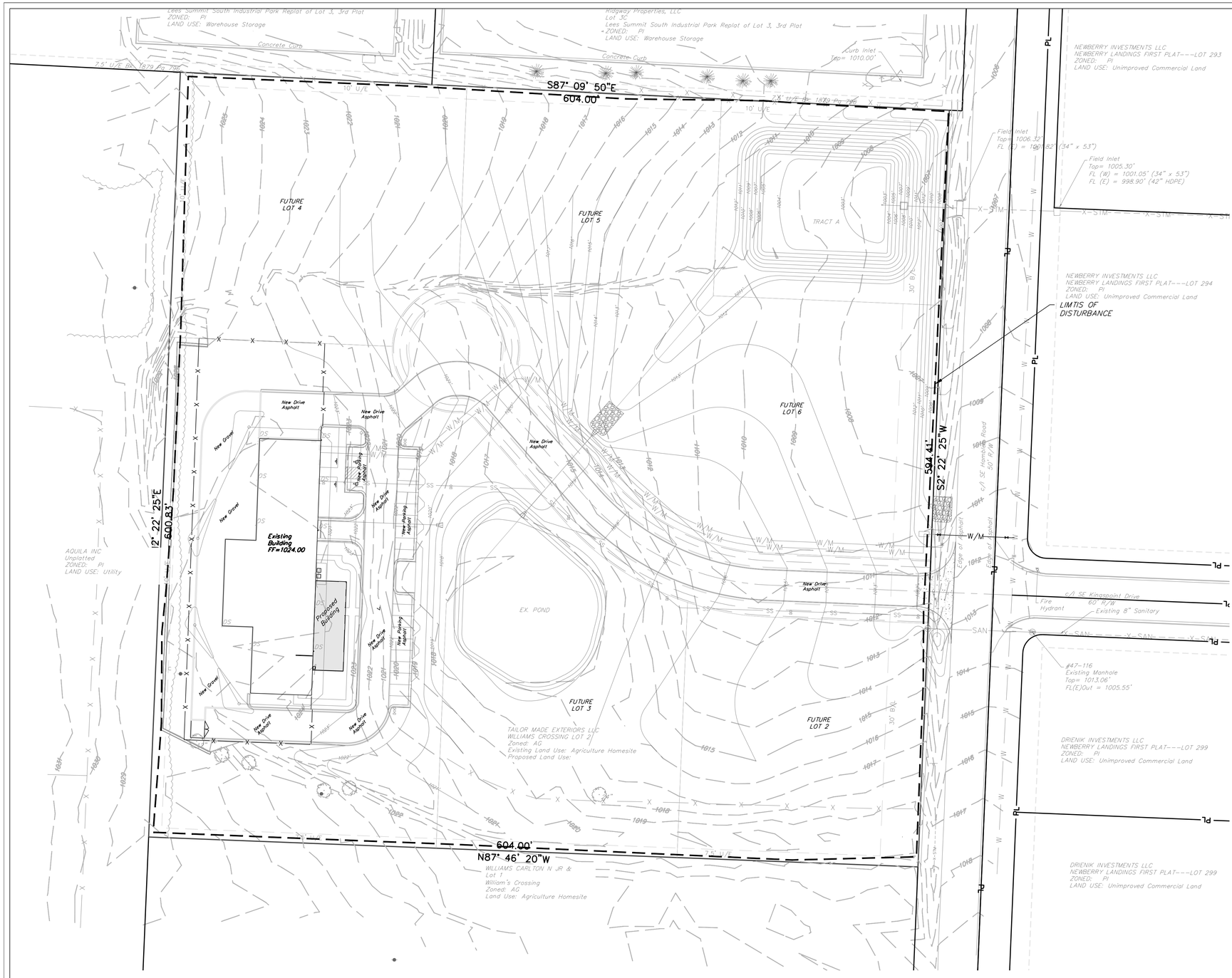
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Project: 1600 SE HAMBILEN RD LEE'S SUMMIT, MO
Issue Date: August 4, 2017

Inactive Area Stabilization Plan
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KS PE 19071
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NE PE E-14335

REVISIONS
REV. 12-14-17
REV. 01-03-18



0 20' 40' 80'

FINAL RESTORATION PLAN

SCALE: 1" = 40'

North

NOTES: The Land Disturbance Plans indicates the Final placement of erosion control devices. The contractor(s) may proceed with construction prior to the final placement of these devices by providing additional devices to control erosion on their items of work. These devices shall be maintained until the final devices are in place.

SEED AND MULCH NOTES:

All areas disturbed by construction activities shall be seeded and mulched. Seeding shall be done before the proposed seedbed becomes eroded, crusted over, or dried out and shall not be done when the ground is frozen, or covered with snow. The seed shall comply with the requirements of the Missouri Seed Law and the Federal Seed Act. Also, it shall contain no seed of any plant on the Federal Noxious Weed List. Other weed seeds shall not exceed one percent by weight of mix

Seed and Fertilizer Rate:

Mix I - Rye Grass / Blue Grass --------- 100 lbs. per Acre
Mix II - Tall Fescue / Blue Grass ------ 195 lbs. per Acre
Lime ----------2000 lbs per Acre (50 lbs. per 1000 sq. ft.)
Fertilizer ----------800 to 1200 lbs per Acre (25 lbs per 1000 sq. ft.)

During the dates December 15th through May 31 ALL lime fertilizer, seed and mulch shall be applied to finished slopes of disturbed areas. During the months of June, July, October and November 1st through December 15th, lime fertilizer, seed and mulch shall be applied at the following rates:
Lime - 100% of specified quantity
Fertilizer - 75% of the specified quantity
Seed - 50% of the specified quantity
Mulch - 100% of the specified quantity

Mulch shall be Vegetative type, cereal straw from stalks of oats, rye, or barley, or approved equal. The straw shall be free of prohibited weed seed and relatively free of all other noxious and undesirable seed. Mulch shall be applied at the rate of 2 tons per acre, (70 to 90 lbs per 1000 sq. ft.). Mulch shall be embedded by a mulch anchoring tool or disk type roller having flat serrated disks spaced not more than 10 inches apart and cleaning scrapers shall be provided.

8 inches minimum of topsoil shall be provided for final restoration of disturbed areas throughout the project area.

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1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Project: 1600 SE HAMBLEN RD LEE'S SUMMIT, MO
Issue Date: August 4, 2017

Final Restoration Plan

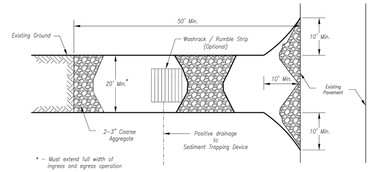
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

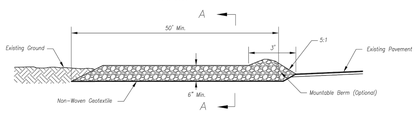
REVISIONS

REV. 12-14-17
REV. 01-03-18

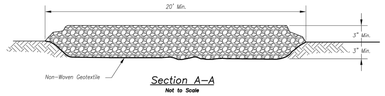
C.052



Plan View
Not to Scale



Side Elevation
Not to Scale



Section A-A
Not to Scale

Notes for Construction Entrance:

1. Avoid locating on steep slopes, at curves on public roads, or downhill of disturbed area.
2. Remove all vegetation and other unsuitable material from the foundation area, grade, and crown for positive drainage.
3. If slope towards the public road exceeds 2%, construct a 6- to 8-inch high ridge with 3H:1V side slopes across the foundation approximately 15 feet from the edge of the public road to divert runoff from it.
4. Install pipe under the entrance if needed to maintain drainage ditches along public roads.
5. Place stone to dimensions and grade as shown on plans. Leave surface sloped for drainage.
6. Divert all surface runoff and drainage from the entrance to a sediment control device.
7. If conditions warrant, place geotextile fabric on the graded foundation to improve stability.

Maintenance for Construction Entrance:

1. Reshape entrance as needed to maintain function and integrity of installation. Top dress with clean aggregate as needed.

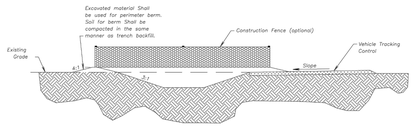
CONSTRUCTION ENTRANCE

Notes for Concrete Washout:

1. Concrete washout areas shall be installed prior to any concrete placement on site.
2. Concrete washout area shall include a flat subsurface pit sized relative to the amount of concrete to be placed on site. The slopes leading out of the subsurface pit shall be 3:1. The vehicle tracking pad shall be sloped towards the concrete washout area.
3. Vehicle tracking control is required at the access point to all concrete washout areas.
4. Signs shall be placed at the construction site entrance, washout area and elsewhere as necessary to clearly indicate the location(s) of the concrete washout area(s) to operators of concrete truck and pump rigs.
5. A one-piece impervious liner may be required along the bottom and sides of the subsurface pit in sandy or gravelly soils.

Maintenance for Concrete Washout:

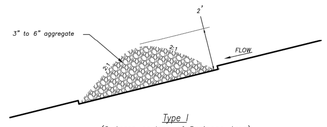
1. Concrete washout materials shall be removed once the materials have filled the washout to approximately 75% full.
2. Concrete washout areas shall be enlarged as necessary to maintain capacity for washed concrete.
3. Concrete washout water, washed pieces of concrete and all other debris in the subsurface 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 topsoil, any disturbed areas associated with the installation, maintenance, and/or removal of the concrete washout areas shall be stabilized.



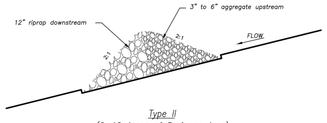
CONCRETE WASHOUT

Construction Entrance modified from 2015 Overland Park Standard Details for Erosion and Sediment Control; Concrete Washout modified from 2009 City of Great Bend Standard Drawings.

AMERICAN PUBLIC WORKS ASSOCIATION
Kansas City Metro Chapter
APWA AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER
CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT
STANDARD DRAWING NUMBER ESC-01
ADOPTED: 10/24/2016



Type I
(2 Acres or less of Drainage Area)
Not to Scale



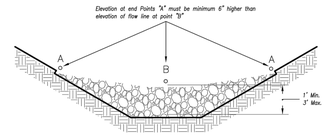
Type II
(2-10 Acres of Drainage Area)
Not to Scale

ROCK DITCH CHECK

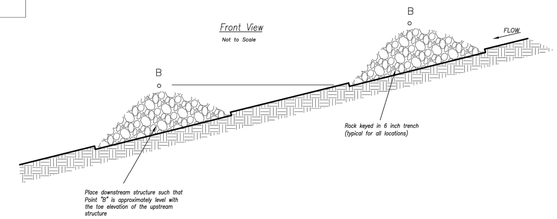
Temporary Rock Ditch Check Spacing

Ditch Centerline Slope (%)	Spacing Interval (Feet)
5.0	60
6.0	50
7.0	43
8.0	36
9.0	33
10.0	29

Note: Use this spacing only for Rock Ditch Checks.



Front View
Not to Scale



Spacing Between Check Dams (all types)
Not to Scale

Notes:

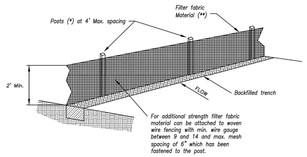
1. Rock check dams shall be used only for drainage areas less that 10 acres unless approved by the City Engineer.
2. Use rock checks only in situations where the ditch slope exceeds 6%.

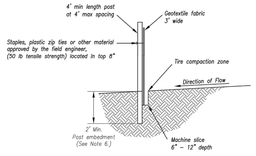
Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches ½ the height of the ditch check.
2. Replace and reshape as necessary to maintain function and integrity of installation.

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

AMERICAN PUBLIC WORKS ASSOCIATION
Kansas City Metro Chapter
APWA AMERICAN PUBLIC WORKS ASSOCIATION
KANSAS CITY METRO CHAPTER
ROCK DITCH CHECKS
STANDARD DRAWING NUMBER ESC-10
ADOPTED: 10/24/2016





(*) POSTS
- MIN. LENGTH 4'
- HARDWOOD 1 ¾" x 1 ¾"
- NO.2 SOUTHERN PINE 2 ¾" x 2 ¾"
- STEEL 1.33 LB/FT

(**) - Geotextile Fabric shall meet the requirements of AASHTO M288

SILT FENCE DETAILS
Not to Scale

Notes:

1. In order to contain water, the ends of the silt fence must be turned uphill (Figure A).
2. Long perimeter runs of silt fence must be limited to 100'. Runs should be broken up into several smaller segments to minimize water concentrations (Figure A).
3. Long slopes should be broken up with intermediate rows of silt fence to slow runoff velocities.
4. Attach fabric to upstream side of post.
5. Install posts a minimum of 2' into the ground.
6. Trenching will only be allowed for small or difficult installation, where slicing machine cannot be reasonably used.

Maintenance:

1. Remove and dispose of sediment deposits when the deposit approaches ½ the height of silt fence.
2. Repair as necessary to maintain function and structure.

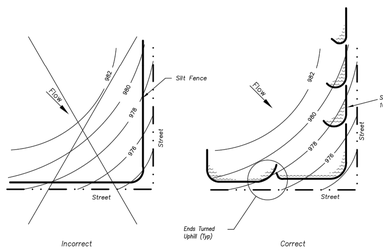
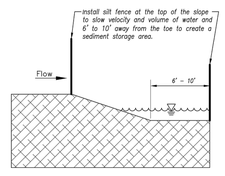
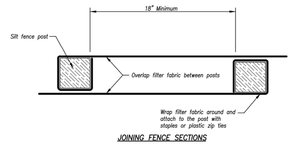


Figure A





JOINING FENCE SECTIONS
Not to Scale

SILT FENCE LAYOUT
Not to Scale

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

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

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1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Project: 1600 SE HAMBLEN RD LEES SUMMIT,MO
Issue Date: August 4, 2017

EROSION CONTROL DETAILS

Tallormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

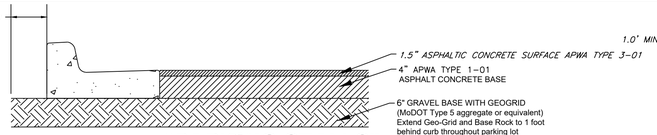
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C.053

Indicates Drive Lane
Private Asphalt Pavement

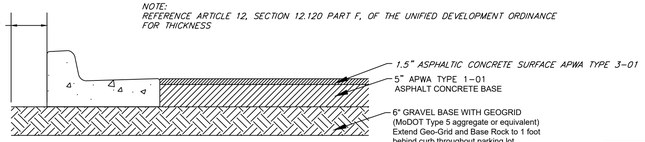
Indicates Parking Stalls
Private Asphalt Pavement



"PARKING STALLS" PRIVATE ASPHALT PAVEMENT

NOT TO SCALE

NOTE:
REFERENCE ARTICLE 12, SECTION 12.120 PART F, OF THE UNIFIED DEVELOPMENT ORDINANCE FOR THICKNESS



"DRIVE LANE" PRIVATE ASPHALT PAVEMENT

NOT TO SCALE



CONCRETE PAVEMENT

NOT TO SCALE

North

0 20' 40' 80'

Site Plan

SCALE: 1" = 40'

OWNER:
TAILORMADE EXTERIORS
RICK MULLIN
317 NW OLIVE STREET
LEE'S SUMMIT, MO
816-322-2444

ALL PAVING ON THE PARKING LOT WILL COMPLY WITH THE UNIFIED DEVELOPMENT ORDINANCE ARTICLE 12 IN TERMS OF PAVING THICKNESS AND BASE

OIL – GAS WELLS
ACCORDING TO EDWARD ALTON'S ENVIRONMENTAL IMPACT STUDY OF ABANDONED OIL AND GAS WELLS IN LEE'S SUMMIT, MISSOURI IN 1995, THERE ARE NOT OIL AND GAS WELLS WITHIN 185 FEET OF THE PROPERTY AS SURVEYED HEREON.

Indicates Drive Lane
Private Asphalt Pavement

Indicates Parking Stalls
Private Asphalt Pavement

Indicates New Gravel
Placement

PROPERTY DESCRIPTION

WILLIAMS CROSSING LOT 2

College West 1 Holdings, LLC
Lot 3B
Lees Summit South Industrial Park Replat of Lot 3, 3rd Plat
ZONED: PI
LAND USE: Warehouse Storage

Ridgway Properties, LLC
Lot 3C
Lees Summit South Industrial Park Replat of Lot 3, 3rd Plat
ZONED: PI
LAND USE: Warehouse Storage

NEWBERRY INVESTMENTS LLC
NEWBERRY LANDINGS FIRST PLAT---LOT 293
ZONED: PI
LAND USE: Unimproved Commercial Land

NEWBERRY INVESTMENTS LLC
NEWBERRY LANDINGS FIRST PLAT---LOT 294
ZONED: PI
LAND USE: Unimproved Commercial Land

DRIENIK INVESTMENTS LLC
NEWBERRY LANDINGS FIRST PLAT---LOT 299
ZONED: PI
LAND USE: Unimproved Commercial Land

DRIENIK INVESTMENTS LLC
NEWBERRY LANDINGS FIRST PLAT---LOT 299
ZONED: PI
LAND USE: Unimproved Commercial Land

AQUILA INC
Unplatted
ZONED: PI
LAND USE: Utility

WILLIAMS CARLTON N JR &
Lot 1
William's Crossing
Zoned: AG
Land Use: Agriculture Homesite

TAILOR MADE EXTERIORS LLC
WILLIAMS CROSSING LOT 2
Zoned: AG
Existing Land Use: Agriculture Homesite
Proposed Land Use:

7.5' U/E Bk. 1879 Pg. 796
10' U/E
S87° 09' 50"E
604.00'
Curb Inlet
Top= 1010.00'
Concrete Curb
Detention Basin
To Be Constructed
During This Phase
TRACT A
New Storm Sewer
FUTURE LOT 4
FUTURE LOT 5
FUTURE LOT 6
FUTURE LOT 3
FUTURE LOT 2
EX. POND
Field Inlet
Top= 1006.20'
FL (E) = 1001.82' (34" x 53")
Field Inlet
Top= 1005.30'
FL (W) = 1001.05' (34" x 53")
FL (E) = 998.90' (42" HDPE)
30' B/L
STM
SAN
SS
W
Note:
New Fence Will Be a 6' Solid Vinyl Fence.
NEW FENCE
END NEW CG-1 CURB
NEW GATE
Ex. Gravel
New Gravel
ADA Sign
New 6' Sidewalk To Main Entrance
New 5' Sidewalk Applies
New Loading Dock
New Wall
Existing Building FF=1024.00
New 5' Sidewalk
New HVAC
Proposed Building
10 Spaces
NEW CG-1 CURB
New Light Pole
New Storm Line
Future Curb
Future Sidewalk
New 1.0" Domestic Water Line
New 8" Fire Line
Hatch Area Represents the Asphalt Pavement Areas
New 8" Fire Line
New 1.0" Domestic Water Line
New Storm Sewer
Backflow Vault
1.0" Water Meter
New Water Line To Be Bored Beneath The Street
Concrete Entrance (8" KCMMB Concrete)
New 6" Sanitary Stub
New Sanitary Manhole
New Public 8" Sanitary Main
c/l SE Hamblen Road
50' R/W
Edge of Asphalt
c/l SE Kingspoint Drive
60' R/W
Fire Hydrant
Existing 8" Sanitary
#47-116
Existing Manhole
Top= 1013.06'
FL(E)Out = 1005.55'
N2° 22' 25"E
600.83'
S2° 22' 25"W
594.41'
10' U/E
7.5' U/E
604.00'
N87° 46' 20"W
NEW TRASH ENCLOSURE
See Detail on C.101
Remove Existing Storm Pipe
Remove Existing Gravel Drive
Remove Existing Entry

Site Impervious Area

Total Area	8.34 acres
Floor/Area Ratio	0.036%
Building	13,199 sq. ft.
Parking/Sidewalk	29,492 sq. ft
Impervious Area	42,691 sq. ft (12% of Site)
Parking Spaces	21 Standard / 2 Handicap

Site Improvement Notes

Sanitary Sewer Improvements
–The site will require a sanitary service from the existing sanitary to the east.

Water Main Improvements
–The existing 8" water main locate to the east of Hamblen Road.

Storm Sewer
–Enclosed pipe systems and inlets will collected and convey the onsite storm water runoff and direct it toward the new detention facility located at the northeast corner of the site. The storm sewer shall be designed to convey the 10 year storm event and the building runoff will be collected and directed into the enclosed pipe system.

Storm Water Detention
–The site will be designed to control the storm water runoff per the current standards as set forth in APWA Section 5600. The system will be an open aired basin and release into the existing storm of Hamblen Road.

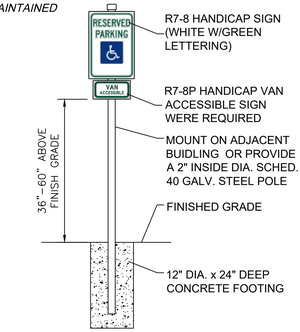
Storm Water Quality Elements
–The detention system will incorporate an infiltration system into the bottom of the basin to provide the opportunity for infiltration back into the existing ground. The system will be designed to handle and control the 2 year storm flows and will consist of a gravel base and filter fabric located on the eastern side of the site will be converted into a infiltration system to control the storm.

Hamblen Road
–No improvements are anticipated for Hamblen Road

Detention Basin design is for entire site full build out.

All future lots and tracts to be completed with another application. Shown for reference only.

SIGN MAY BE WALL MOUNTED DIRECTLY TO BUILDING. DIMENSIONS MUST BE MAINTAINED



HANDICAP SIGN DETAIL

NOT TO SCALE

GENERAL NOTES:

1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.
2 ~ ALL REQUIRED EASEMENTS WITHIN THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED BY SEPARATE DOCUMENT
3 ~ ANY REQUIRED EASEMENT LOCATED OUTSIDE OF THE BOUNDARY OF THIS PROJECT SHALL BE PROVIDED FOR BY SEPARATE INSTRUMENT PRIOR TO ISSUANCE OF CONSTRUCTION PERMITS.
4 ~ THE CONTRACTOR SHALL NOTIFY THE CITY OF LEE'S SUMMIT PUBLIC WORKS INSPECTION AT 816.969.1800 AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION.
5 ~ THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH THE IMPROVEMENTS PROPOSED BY THESE PLANS AND SITE CONDITIONS.
6 ~ THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER AND OBTAIN THE APPROPRIATE BLASTING PERMITS FOR A REQUIRED BLASTING. IF BLASTING IS ALLOWED, ALL BLASTING SHALL CONFORM TO STATE REGULATIONS AND LOCAL ORDINANCES.

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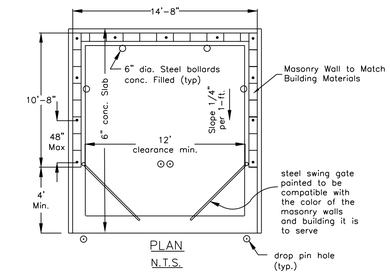
SITE PLAN
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

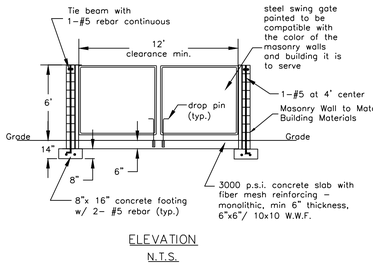
REVISIONS
REV. 12-14-17
REV. 01-03-18

C.100

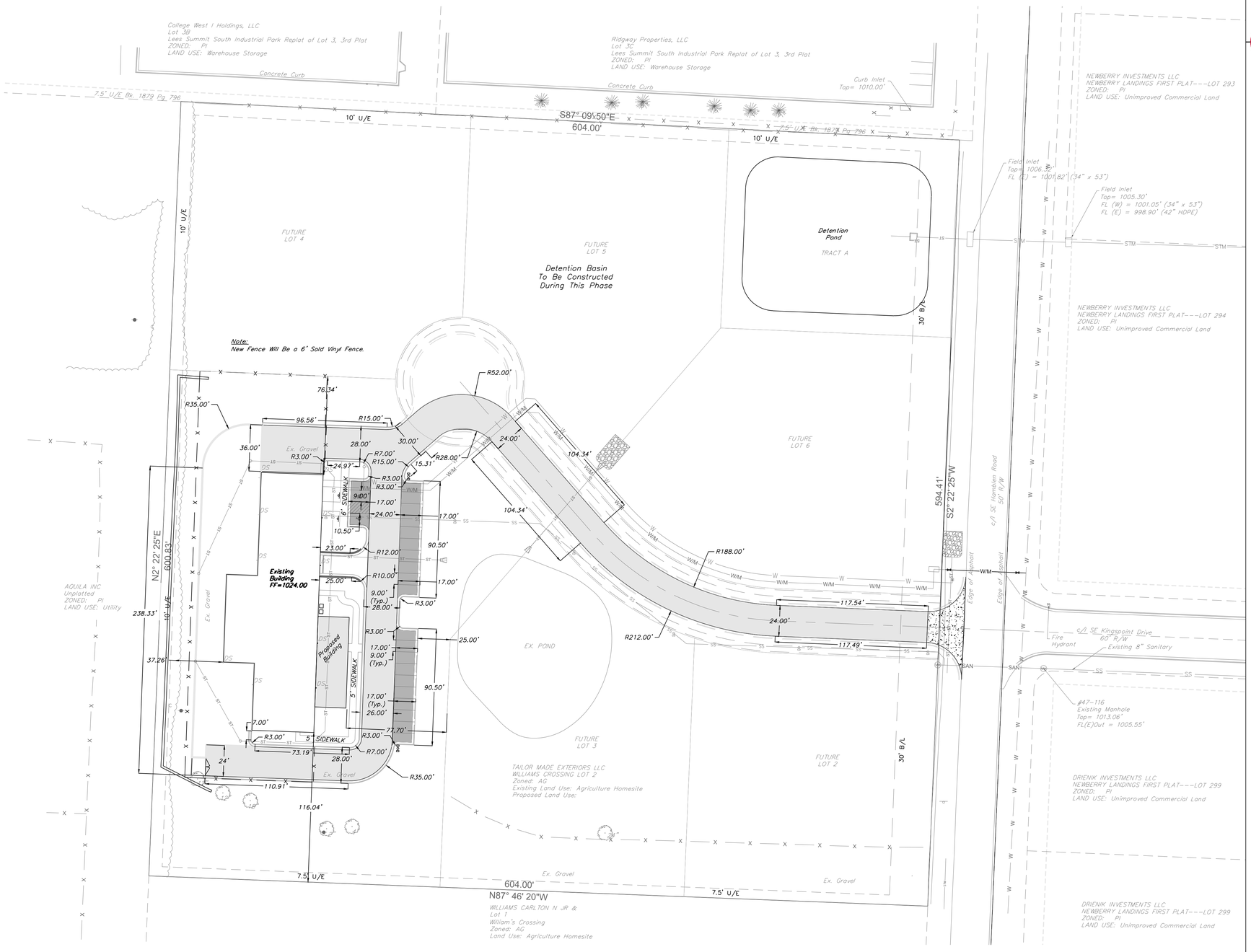
DUMPSTER ENCLOSURE



PLAN
N.T.S.



ELEVATION
N.T.S.



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DIMENSION PLAN

Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

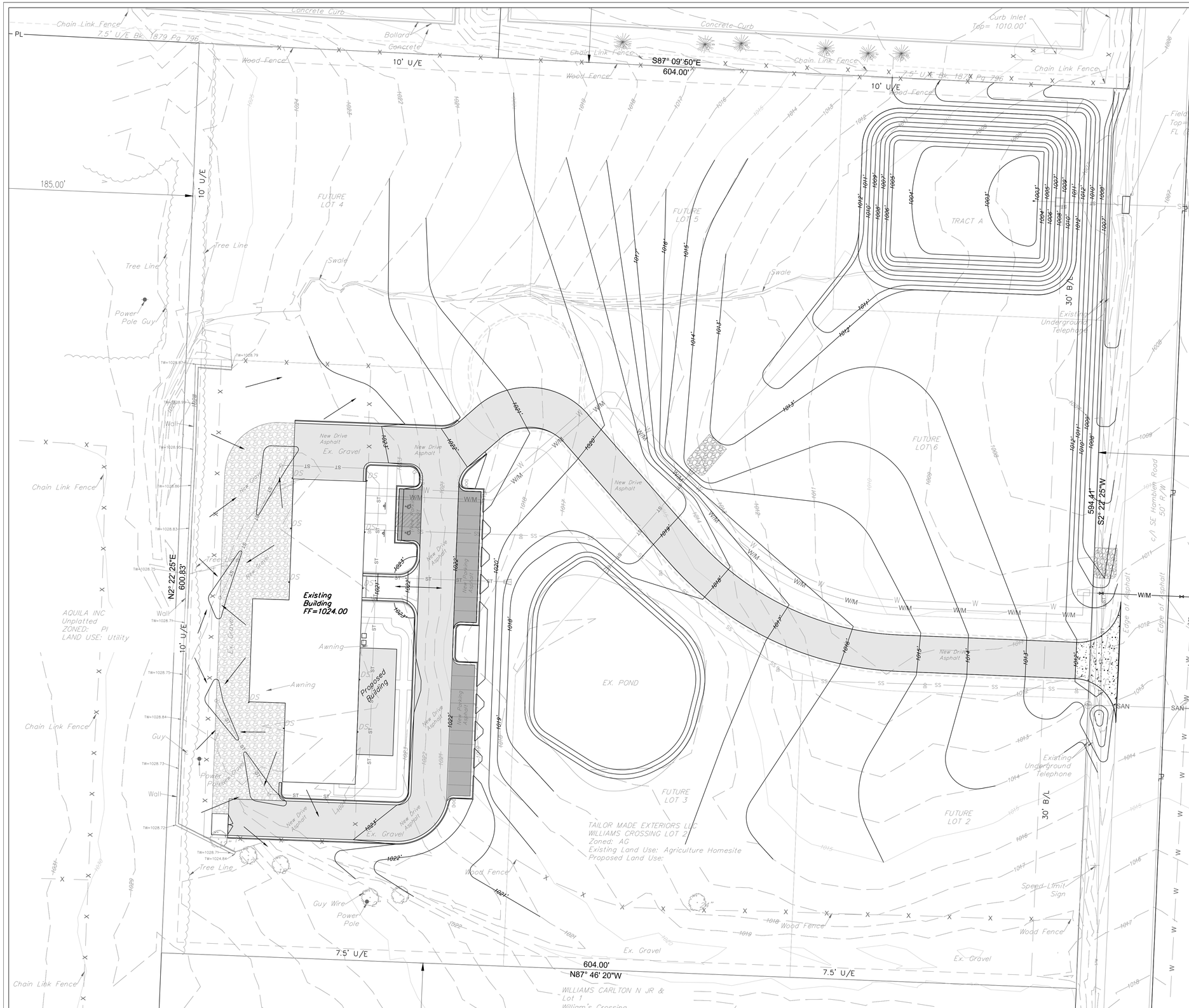
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NE PE E-14335

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REV. 12-14-17

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C.101



0 15' 30' 60'

North

GRADING PLAN

SCALE: 1" = 30'

Estimated Cut / Fill Quantities	
Site Area	8.34 Acres
Cut Volume (Unadjusted)	4,182 c.y.
Fill Volume (Unadjusted)	15,002 c.y.
Building and Sidewalk (Cut)	986 c.y.
Net Import Required	9,834 c.y. (Unadjusted)

Notes

1. Contractor is responsible for verifying all existing utility locations prior to excavation
2. There are no known natural or artificial water storage detention areas, or wetlands in the area designated for construction
3. No part of the project lies within the 100 year flood plain
4. All erosion and sediment control measures need to be implemented prior to construction
5. Additional erosion control may be required by the City Engineer, Design Engineer or Owner at any time problematic areas are noted in the field or existing measures are found to be ineffective
6. Soil Stabilization of disturbed areas shall be completed within 14 days of construction inactivity
7. Contractor responsible for all density testing of roadway subgrade and granular base.
8. Contractor responsible to provide Engineering Solutions an Asbuilt topographic survey of the site to verify grades.

Legend

Drainage Arrows

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Kansas
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Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

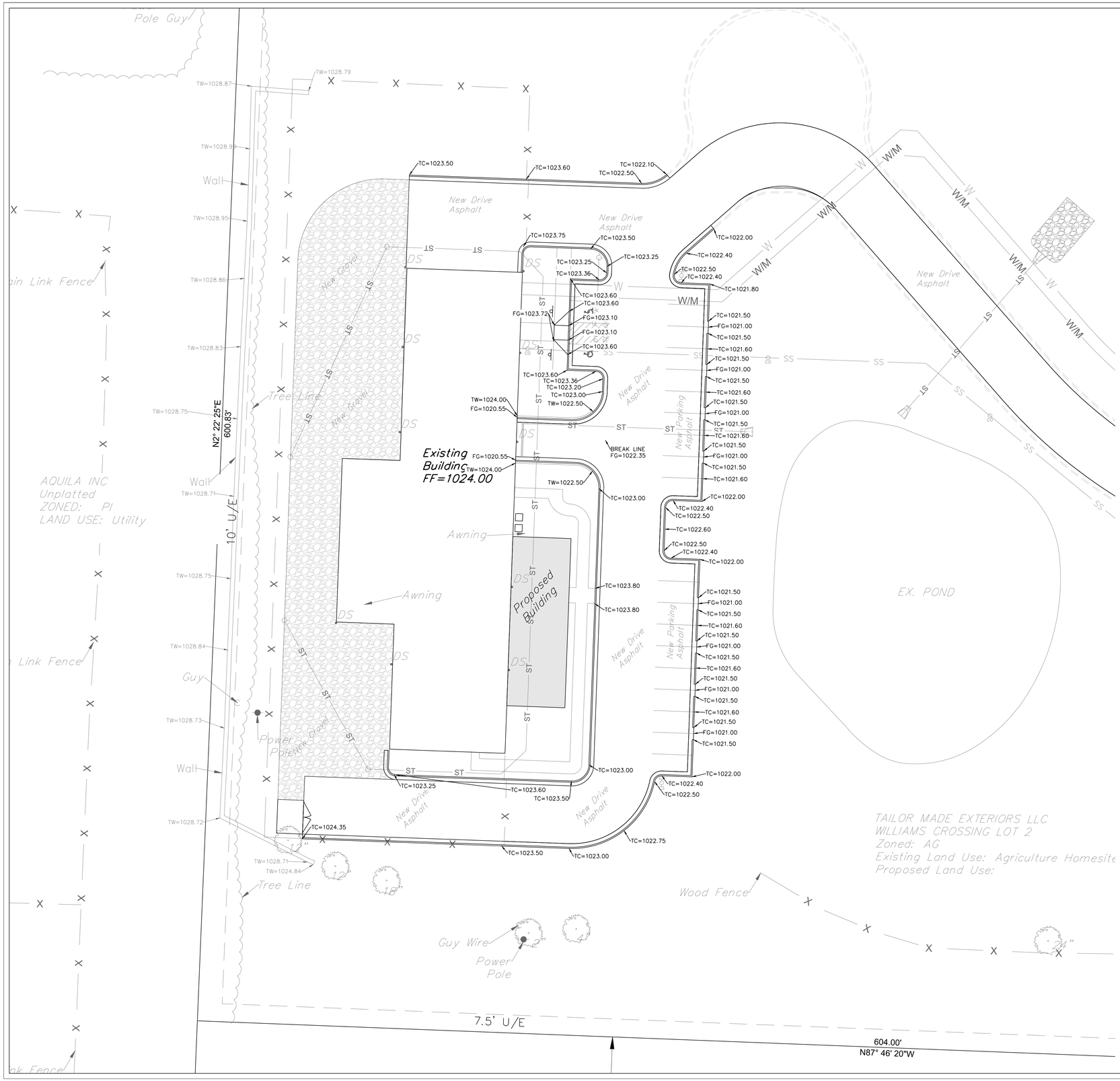
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Project: 1600 SE HAMBLEN RD LEES SUMMIT MO
Issue Date: August 4, 2017

GRADING PLAN
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

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Nebraska
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1600 Hamblen Road
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SPOT ELEVATION PLAN
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
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NE PE E-14335

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C.201

STORM GENERAL LAYOUT

SCALE: 1" = 30'

North

0 15' 30' 60'

NOTE

ALL INTERIOR STORM LINES ARE PRIVATE.

Concrete Curb

Curb Inlet
Top= 1010.00'

10' U/E

S87° 09'50"E
604.00'

7.5' U/E Bk. 1879 Pg. 796

FUTURE
LOT 4

FUTURE
LOT 5

Detention
Pond

TRACT A

FUTURE
LOT 6

Field Inlet
Top= 1006.32'
FL (E) = 1001.82' (34" x 53")

Field Inlet
Top= 1005.30'
FL (W) = 100
FL (E) = 998.

Install 39.0' of 15" HDPE
Storm Pipe

Install 5' x 5' Outlet Structure
Top 1011.00
FL 1002.25'

Install 15.0' of 15" HDPE
Storm Pipe

30' B/L

NEWBERRY INVESTMEN
NEWBERRY LANDINGS
ZONED: PI
LAND USE: Unimprove

NEWBERRY INVESTMENTS
NEWBERRY LANDINGS
ZONED: PI
LAND USE: Unimprove

5' x 5' Outlet Structure
Plan View

15" HDPE

15" HDPE

Section A
Profile View

Top = 1012.50'

Emergency Weir Opening
FL = 1011.50'

12" Orifice
FL = 1007.00'

6" Orifice
FL = 1002.25'

Section B
Profile View

Top = 1012.50'

15" HDPE
FL = 1002.25'

Section C
Profile View

Top = 1012.50'

15" HDPE
FL = 1002.25'

Install 36" Flare End Section
FL 1015.00' w/ 10' x 25' x 2' Rip Rap

Install 96.77' of 36"
HDPE Storm Pipe

Install 12"
Flared End Section

Install 36" Flared End
Section FL 1017.00'

Install 15" Flare End Section
FL 1009.00' w/ 10' x 20' x 2' Rip Rap

Install 90.0' of 15" HDPE
Storm Pipe

Install 15" Flare End Section
FL 1011.00'

594.41'
S2° 22' 25"W

c/L SE Hamblen Road
50' R/W

Edge of Asphalt

c/L SE Kingspoint Dri
60' R/W

Fire
Hydrant

Existing 8"

#47-116
Existing Manhole
Top= 1013.06'
FL(E)Out = 1005.55'

Install 13.31' of
6" Duraslot
Top 1020.50
FL 1019.00

N2° 22' 25"E
600.83'

Existing
Building
FF=1024.00

Proposed
Building

New Drive
Asphalt

New Parking
Asphalt

New Gravel

EX. POND

FUTURE
LOT 3

FUTURE
LOT 2

TAILOR MADE EXTERIORS LLC
WILLIAMS CROSSING LOT 2
Zoned: AG
Existing Land Use: Agriculture Homesite
Proposed Land Use:

DRIENIK INVESTMENTS L
NEWBERRY LANDINGS F
ZONED: PI
LAND USE: Unimproved

DRIENIK INVESTMENT
NEWBERRY LANDINGS
ZONED: PI

7.5' U/E

604.00'
N87° 46' 20"W

7.5' U/E

WILLIAMS CARLTON N JR &
Lot 1
William's Crossing

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1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Project: 1600 SE HAMBLEN RD LEES SUMMIT,MO

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UTILITY PLAN

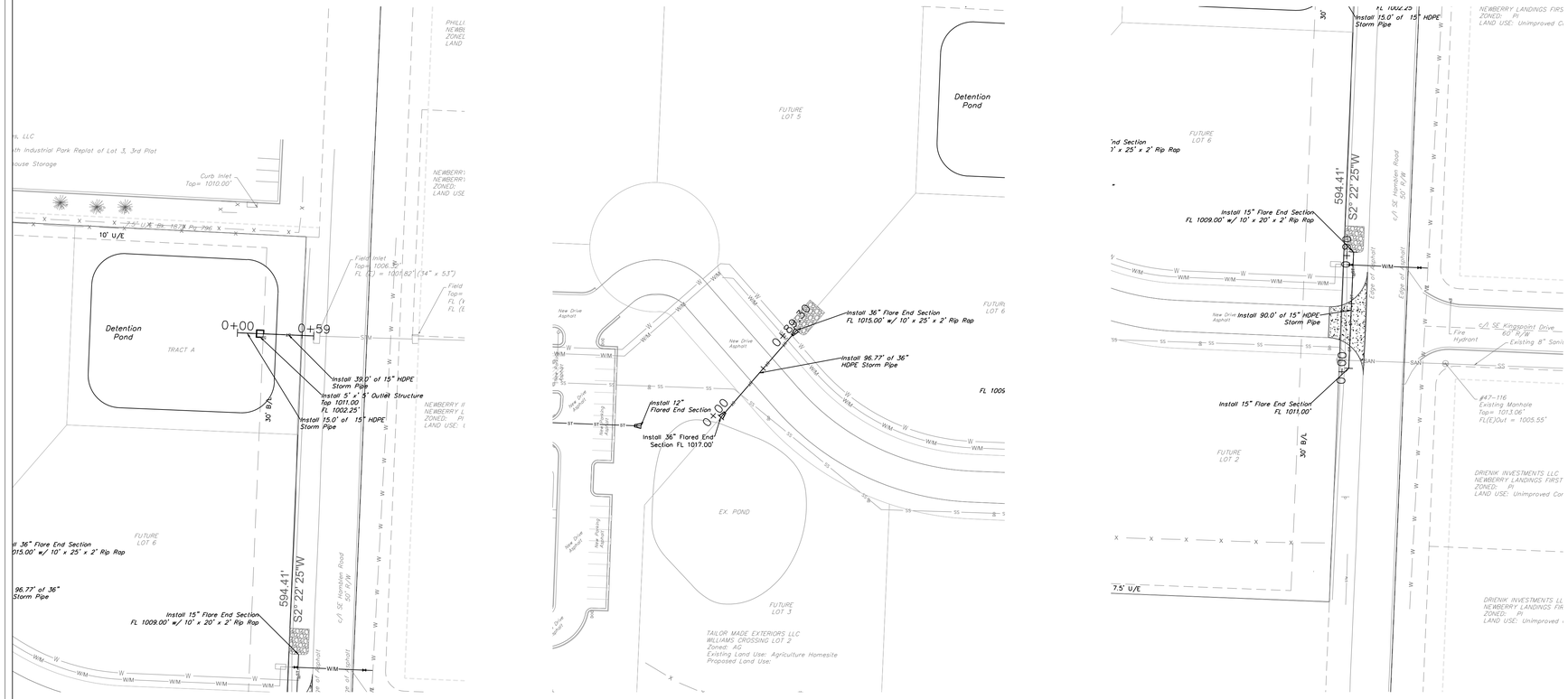
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS

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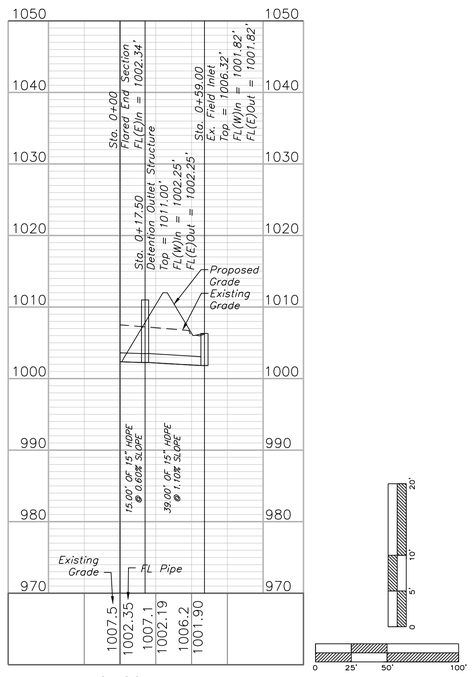
STORM PLAN AND PROFILE

SCALE: 1" = 50'

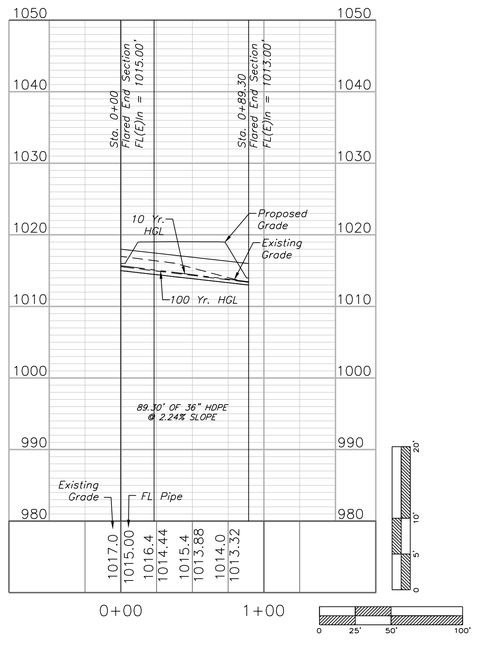
NOTE

ALL INTERIOR STORM LINES ARE PRIVATE.

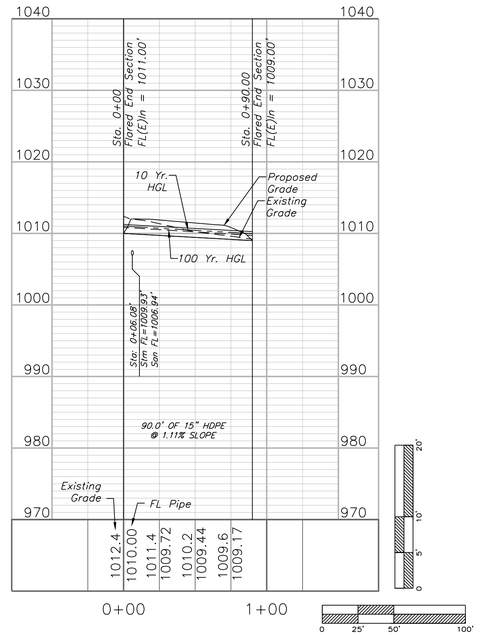
STORM LINE 1



STORM LINE 2



STORM LINE 3



10 Year HGL

100 Year HGL

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1600 Hamblen Road
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Project:
1600 SE HAMBLEN RD LEES SUMMIT,MO
Issue Date:
August 4, 2017

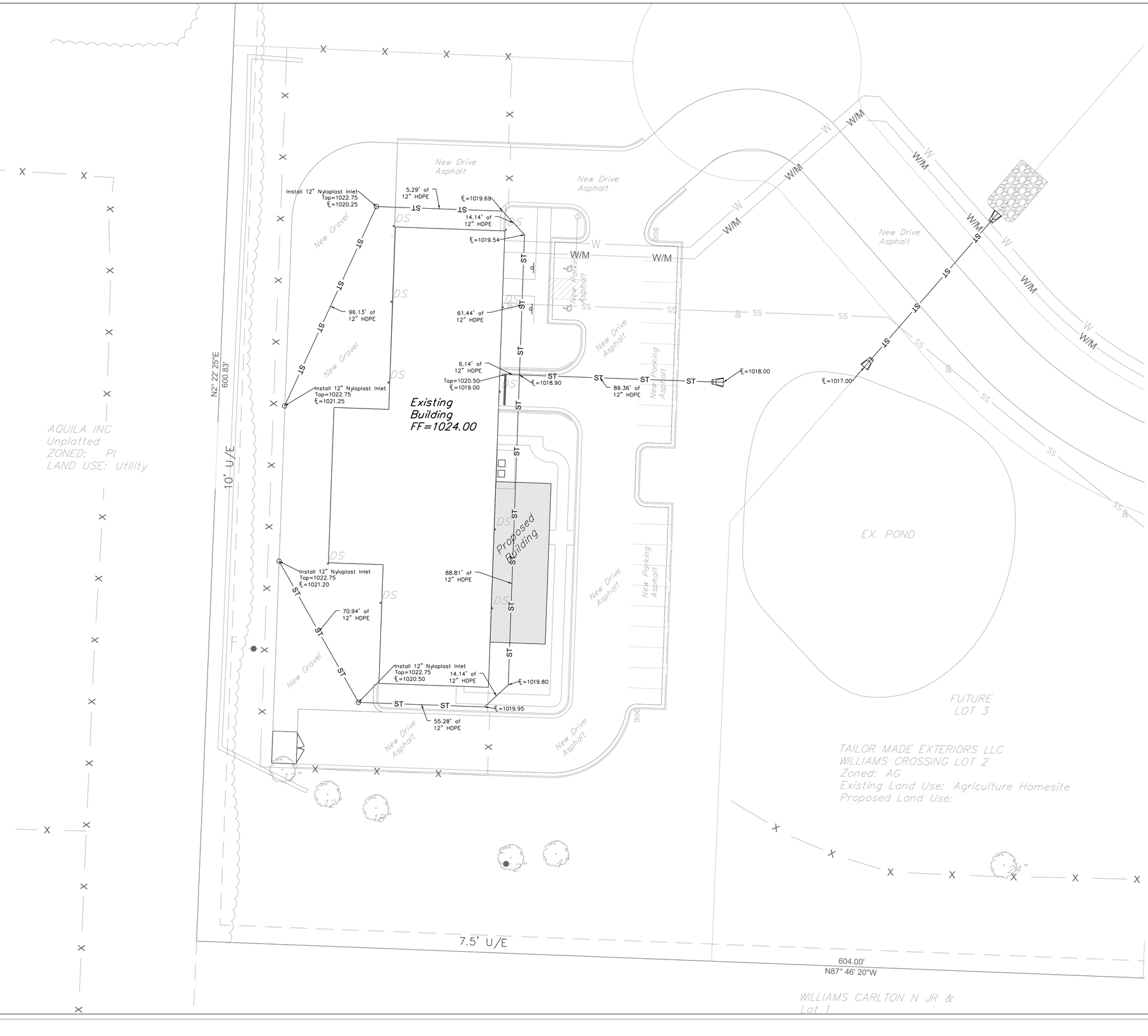
STORM PLAN AND PROFILE
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

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1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Project: 1600 SE HAMBLEN RD LEE'S SUMMIT MO
Issue Date: August 4, 2017

ROOF DRAIN PLAN
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

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C.302

Tailormade Landing
PUBLIC IMPROVEMENT PLANS
FOR SANITARY SEWER LINE EXTENSION
SEC-17 TWP-47 RNG-31 SE 1/4 NE 1/4
LEE'S SUMMIT, JACKSON COUNTY, MISSOURI

CONSTRUCTION AND DESIGN NOTES:

SANITARY SEWERS:

1. SANITARY SEWER PIPE SHALL BE POLY VINYL CHLORIDE (PVC), SDR-26, UNLESS NOTED OTHERWISE IN THESE PLANS.

2. SEWER LATERALS SHALL BE 6 INCH PVC, SDR-26. LATERALS SHALL BE CONSTRUCTED USING A TOP ORIENTED "WYE" AT THE SEWER STATION SHOWN IN THESE PLANS. LATERALS SHALL BE LAID AT A GRADE OF 2.0% FROM THE SEWER MAIN TO THE STREET RIGHT-OF-WAY LINE OR EASEMENT LINE AS REPRESENTED BY THE LATERAL LENGTH SHOWN IN THESE PLANS. THE ELEVATION SHOWN FOR THE END OF THE LATERAL IN THESE PLANS IS APPROXIMATE. THE ACTUAL ELEVATION SHALL BE DETERMINED BY THE FLOW LINE ELEVATION OF THE SEWER MAIN, THE FITTINGS AND GRADE OF THE SEWER LATERAL.

3. THE CONTRACTOR SHALL MAINTAIN A LOG OF THE "AS BUILT" STATION AND LENGTH OF EACH HOUSE LATERAL AND SHALL PROVIDE ENGINEERING SOLUTIONS, L.L.C. WITH A COPY OF SAID LOG UPON COMPLETION OF SEWER CONSTRUCTION.

4. ALL MANHOLES INSTALLED IN THE STREET RIGHT-OF-WAY SHALL BE FINISHED 1/2" PER FOOT ABOVE THE NEAREST ADJACENT BACK OF CURB

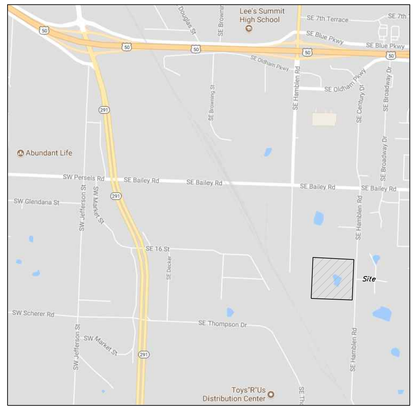
5. A STAKE SHALL BE PLACED AT THE END OF EACH WYE CONNECTION WITH THE END ELEVATION WRITTEN ON THE STAKE

6. FILL AREAS SHALL HAVE 3 FEET OF COMPACTED FILL IN PLACE PRIOR TO TRENCHING

7. A TRENCH CHECK CONSISTING OF FLOWABLE FILL MUST BE INSTALLED ON EVERY PRIVATE LATERAL.

GENERAL NOTE:

1 ~ ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL AS ADOPTED BY ORDINANCE 5813.



SITE LOCATION MAP

North

INDEX OF SHEETS:

C.400 ~ COVER SHEET
C.401 ~ SANITARY SEWER GENERAL LAYOUT
C.402 ~ SANITARY LINE PLAN & PROFILE
C.403 ~ SANITARY DETAILS

LEGEND:

B/L	– BUILDING SET–BACK
C/A	– COMMON AREA
D/E	– DRAINAGE EASEMENT
FND.	– FOUND
L/E	– LANDSCAPE EASEMENT
L.N.A.	– LIMITS OF NO ACCESS
R/W	– RIGHT OF WAY
SAN	– SANITARY SEWER LINE
S/W	– SIDEWALK
U/E	– UTILITY EASEMENT
W	– WATER LINE
ST	– STORM SEWER LINE

UTILITY COMPANIES:

THE FOLLOWING LIST OF UTILITY COMPANIES IS PROVIDED FOR INFORMATION ONLY. WE DO NOT OFFER ANY GUARANTEE OR WARRANTY THAT THIS LIST IS COMPLETE OR ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ALL UTILITY COMPANIES THAT MAY BE AFFECTED BY THE PROPOSED CONSTRUCTION AND VERIFYING THE ACTUAL LOCATION OF EACH UTILITY LINE. THE CONTRACTOR SHALL NOTIFY ENGINEERING SOLUTIONS AT 816.623.9888 OF ANY CONFLICT WITH PROPOSED IMPROVEMENTS.

KCP&L ~ 298-1196
MISSOURI GAS ENERGY ~ 756-5261
SOUTHWESTERN BELL TELEPHONE ~ 761-5011
COMCAST CABLE ~ 795-1100
WILLIAMS PIPELINE ~ 422-6300
CITY OF LEE'S SUMMIT PUBLIC WORKS ~ 969-1800
CITY OF LEE'S SUMMIT PUBLIC WORKS INSPECTIONS ~ 969-1800
CITY OF LEE'S SUMMIT WATER UTILITIES ~ 969-1900
MISSOURI ONE CALL (DIG RITE) ~ 1-800-344-7483

ENGINEER'S CERTIFICATION:

I HEREBY CERTIFY THAT THIS PROJECT HAS BEEN DESIGNED AND THESE PLANS PREPARED IN ACCORDANCE WITH THE CURRENT DESIGN CRITERIA OF THE CITY OF LEE'S SUMMIT, MISSOURI AND THE STATE OF MISSOURI. I FURTHER CERTIFY THAT THESE PLANS WERE DESIGNED IN ACCORDANCE TO AASHTO STANDARDS.

CITY OF LEE'S SUMMIT, MISSOURI

APPROVED: DATE: _____

BY: _____
CITY ENGINEER

ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P:(816) 623-9888 F:(816)623-9849

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1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Project: 1600 SE HAMBLEN RD LEE'S SUMMIT,MO
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COVER SHEET
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS

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REV. 01–03–18

North

0 25' 50' 100'

SANITARY SEWER GENERAL LAYOUT

SCALE: 1" = 50'

FUTURE LOT 4

FUTURE LOT 5

TRACT A

FUTURE LOT 6

FUTURE LOT 3

FUTURE LOT 2

10' U/E

Tree Line

Tree Line

Swale

Swale

Power Pole Guy

Wood Fence

Field Inlet
Top= 1006.32'
FL (E) = 1001.82' (34" x 53")

Field Inlet
Top= 1005.30'
FL (W) = 1001.05' (34" x 53")
FL (E) = 998.90' (42" HDPE)

STM

NEWBERRY INVESTMENTS LLC
NEWBERRY LANDINGS FIRST PLAT---LOT 294
ZONED: PI
LAND USE: Unimproved Commercial Land

30' B/L

Existing Underground Telephone

TW=1028.87

TW=1028.79

TW=1028.99

Wall

TW=1028.95

TW=1028.86

TW=1028.83

Link Fence

Tree Line

N2° 22' 25"E 600.83'

Wall

TW=1028.71

TW=1028.75

Link Fence

Guy

TW=1028.73

Power Pole

Wall

TW=1028.72

TW=1028.71

TW=1024.84

12"

12"

18"

Tree Line

Guy Wire

2"

4"

Power Pole

Fence

AQUILA INC
Unplatted
ZONED: PI
LAND USE: Utility

DS

Existing Building
FF=1024.00

Awning

Awning

Proposed Building

EX. POND

SS

W/M

W

X

Wood Fence

24"

Wood Fence

Wood Fence

7.5' U/E

604.00'
N87° 46' 20"W

7.5' U/E

WILLIAMS CARLTON N JR &
Lot 1
William's Crossing
Zoned: AG

TAILOR MADE EXTERIORS LLC
WILLIAMS CROSSING LOT 2
Zoned: AG
Existing Land Use: Agriculture Homesite
Proposed Land Use:

Future Sanitary Stub

Install New Manhole
MH A-1
Top=1013.00
FL(E)Out=1007.00

Sta: 0+77.04
Install San. Stub
Using Wye Connection

Bore New Sewer Line Beneath Street
Install 70.75 L.F. of 16" Sleeve for installation of
82.04 L.F. of 8 Inch Public Sewer Line

Existing Underground Telephone

594.41'
S2° 22' 25"W

c/l SE Hamblen Road
50' R/W

Edge of Asphalt

Edge of Asphalt

Speed Limit Sign

c/l SE Kingspoint Drive
60' R/W

Fire Hydrant

Existing 8" Sanitary

SAN

#47-116
Existing Manhole
Top= 1013.06'
FL(E)Out = 1005.55'

#47-116
Core Drill Manhole
FL 1006.05'

DRIENIK INVESTMENTS LLC
NEWBERRY LANDINGS FIRST PLAT---LOT 299
ZONED: PI
LAND USE: Unimproved Commercial Land

DRIENIK INVESTMENTS LLC
NEWBERRY LANDINGS FIRST PLAT---LOT 299
ZONED: PI
LAND USE: Unimproved Commercial Land

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SANITARY SEWER GENERAL LAYOUT

Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

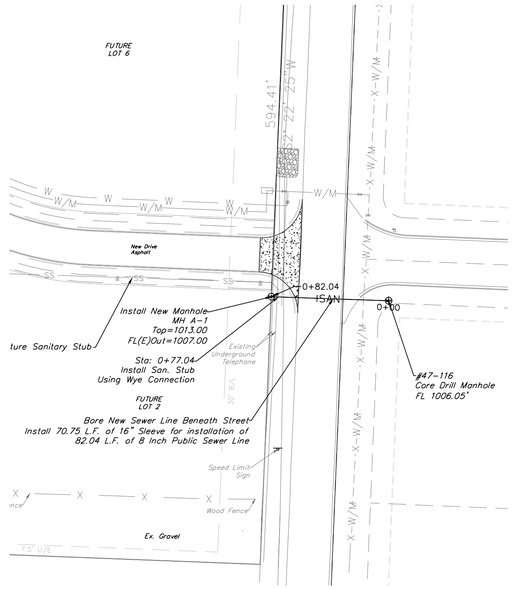
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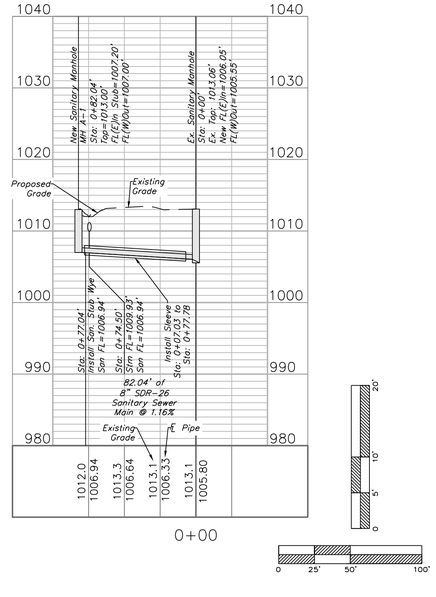
North

0 25' 50' 100'

SANITARY SEWER PLAN AND PROFILE

SCALE: 1" = 50'

PUBLIC SANITARY LINE A



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SANITARY SEWER PLAN AND PROFILE
Tailormade Landing
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Lee's Summit, Jackson County, Missouri

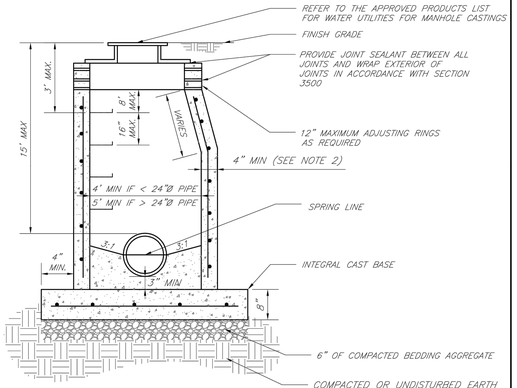
Matthew J. Schlicht
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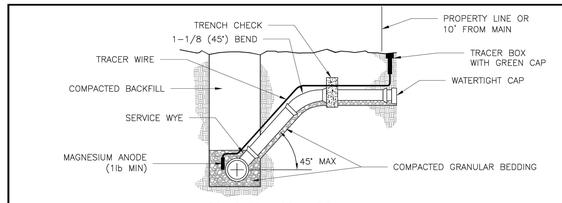


NOTES:
1. PRECAST CONCRETE MANHOLES SHALL CONFORM TO ASTM C478 EXCEPT AS MODIFIED BY THE SPECIFICATIONS.
2. A WALL THICKNESS NOT LESS THAN ONE-TWELFTH (1/12) OF THE INSIDE DIAMETER OR 4", WHICHEVER IS GREATER, SHALL BE USED WHEN THE MANHOLE DEPTH IS LESS THEN 15'.
3. WATERPROOFING SHALL BE REQUIRED ON THE OUTSIDE OF MANHOLES. THE WATERPROOFING SHALL CONSIST OF A TOTAL DRY FILM THICKNESS OF NOT LESS THAN 14 MILS OF BITUMINOUS COATING.
4. ONLY ECCENTRIC MANHOLE CONES WILL BE ALLOWED UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER.
5. THE FILL CONCRETE FLOW CHANNEL FOR SIDE BRANCHES SHALL BE PLACED TO PROVIDE A SMOOTH TRANSITION INTO THE FLOW LINE.
6. REFER TO THE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR APPROVED MANHOLE GASKET MODELS.
7. REFER TO THE APPROVED PRODUCTS LIST FOR APPROVED STEPS.

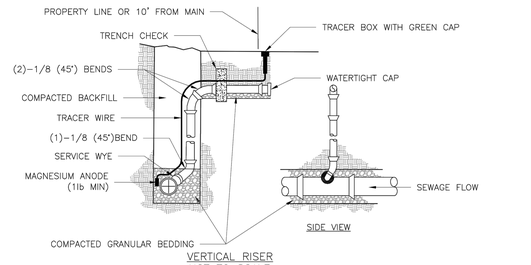
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

STANDARD PRECAST MANHOLE – SANITARY SEWER

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: SAN-2
Rev: 1/14
Rev:



STANDARD INSTALLATION
NOT TO SCALE



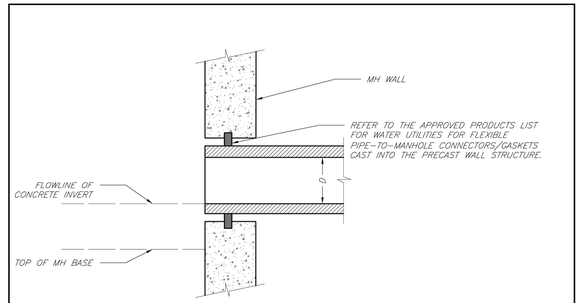
VERTICAL RISER
NOT TO SCALE

NOTES:
1. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN. WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
2. ALL NEW CONSTRUCTION OFF SEWER STUBS SHALL BE TEMPORARILY MARKED WITH A MARKING STAKE, 36" ABOVE GROUND AND PAINTED GREEN.
3. IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
4. TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH SHALL BE A MINIMUM OF 12". THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
5. SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
6. #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
7. FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
8. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.
9. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.

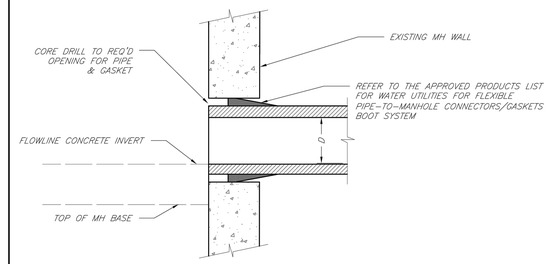
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

BUILDING SEWER STUB AND RISER

Date: 04/17
Drawn By: MJF
Checked By: DL
SAN-1



NEW MANHOLE



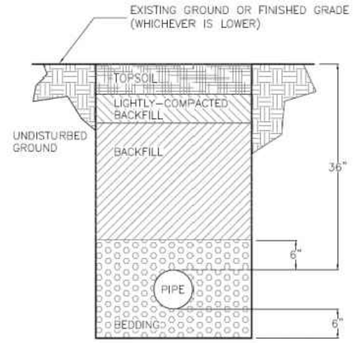
EXISTING MANHOLE

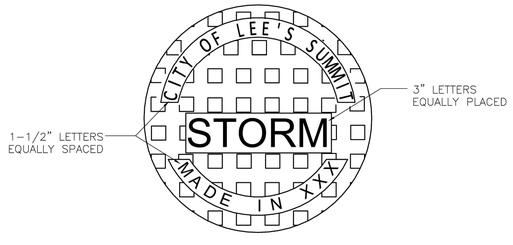
LEE'S SUMMIT
MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

MANHOLE WALL CONNECTIONS

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: SAN-5
Rev: 1/14
Rev:

Detail Provided By:
City of Lee's Summit Design Criteria
Section 6500.E.4 – Sanitary Sewers
Pg. 10





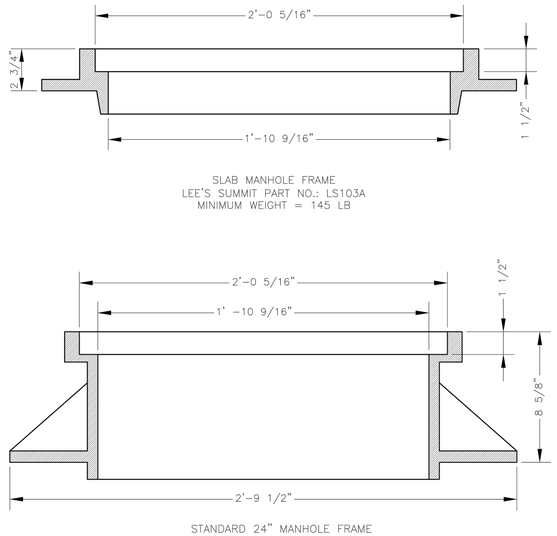
STANDARD 24" MANHOLE COVER
MINIMUM WEIGHT = 160 LB
NOTE: PICK HOLES NOT SHOWN

*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCT LIST.

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

STORM MANHOLE COVER DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL
STM-6



SLAB MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS103A
MINIMUM WEIGHT = 145 LB

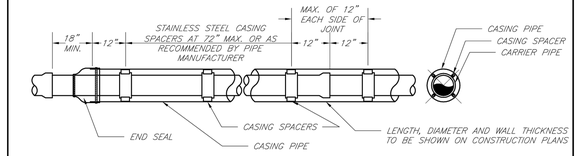
STANDARD 24" MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS101A
MINIMUM WEIGHT = 250 LB

*COVER AND FRAME MODEL INFORMATION REFER TO THE WATER UTILITIES APPROVED PRODUCTS LIST.

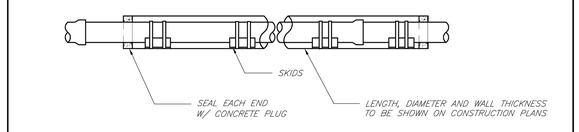
LEE'S SUMMIT
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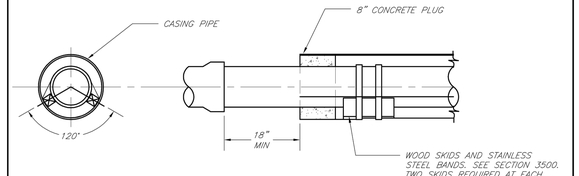
SANITARY MANHOLE FRAME DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL
SAN-9



STAINLESS STEEL SPACERS





WOOD SKIDS

NOTE:
IF WOOD SKIDS ARE USED, ANNULAR SPACE BETWEEN CASING PIPE AND CARRIER PIPE SHALL BE FILLED WITH SAND.

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

CASING PIPE DETAIL

Date: 02/13
Drawn By: JN
Checked By: DL
FILE: SAN-6
Rev: 1/14
Rev:

ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P:(816) 623-9888 F:(816)623-9849

Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Project: 1600 SE HAMBLEN RD LEES SUMMIT, MO
Issue Date: August 4, 2017

SANITARY DETAIL
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS
REV. 12-14-17
REV. 01-03-18

North

0 25' 50' 100'

WATER PLAN

SCALE: 1" = 50'

FUTURE LOT 4

FUTURE LOT 5

FUTURE LOT 6

FUTURE LOT 3

FUTURE LOT 2

Existing Building FF=1024.00

Proposed Building

Install Fire Dept Connection

Install Fire Hydrant

Install 45° Bend

Install 570.18' of 8" C-900 PVC Fire Line

Install 570.09' of 1.0" Type "K" Soft Copper

Install 45° Bend

Public Main Extension
Bore 62.38' of 8" Class 52 D.I.P.
Underneath Hamblen Road

Install 1.0" Water Tap Prior to Backflow Vault

Install 8" Valve Prior to Backflow Vault

Install Backflow Vault

Install 1.0" Water Meter

Install 90° Bend

Install 16" x 8" Tee
8" Valve on West Leg

Existing Underground Telephone

Existing Underground Telephone

30' B/L

10' U/E

7.5' U/E

7.5' U/E

604.00'
N87° 46' 20"W

N2° 22' 25"E
600.83'

S2° 26' 40"W
594.61'

Tree Line

Swale

Power Pole Guy

Wall

Chain Link Fence

New Drive Asphalt

New Gravel

New Parking Asphalt

Awning

Guy

Power Pole

Guy Wire

Wood Fence

Speed Limit Sign

STM

SS

W

W/M

WLS

SAN

TW=1028.87

TW=1028.79

TW=1028.99

TW=1028.95

TW=1028.86

TW=1028.83

TW=1028.75

TW=1028.7

TW=1028.75

TW=1028.84

TW=1028.73

TW=1028.72

TW=1028.7

TW=1024.84

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1600 Hamblen Road
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WATER PLAN
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
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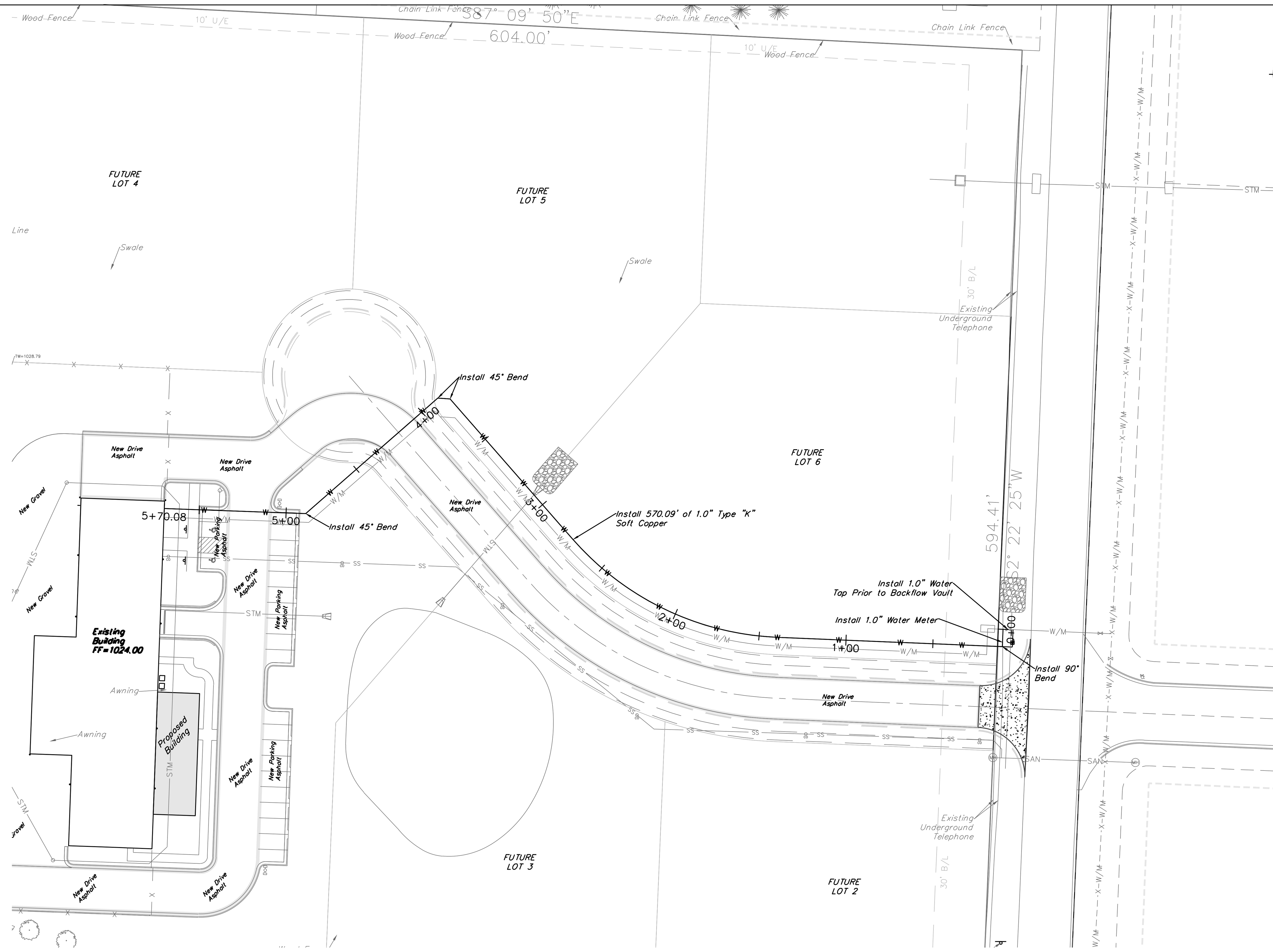
REVISIONS

REV. 12-14-17

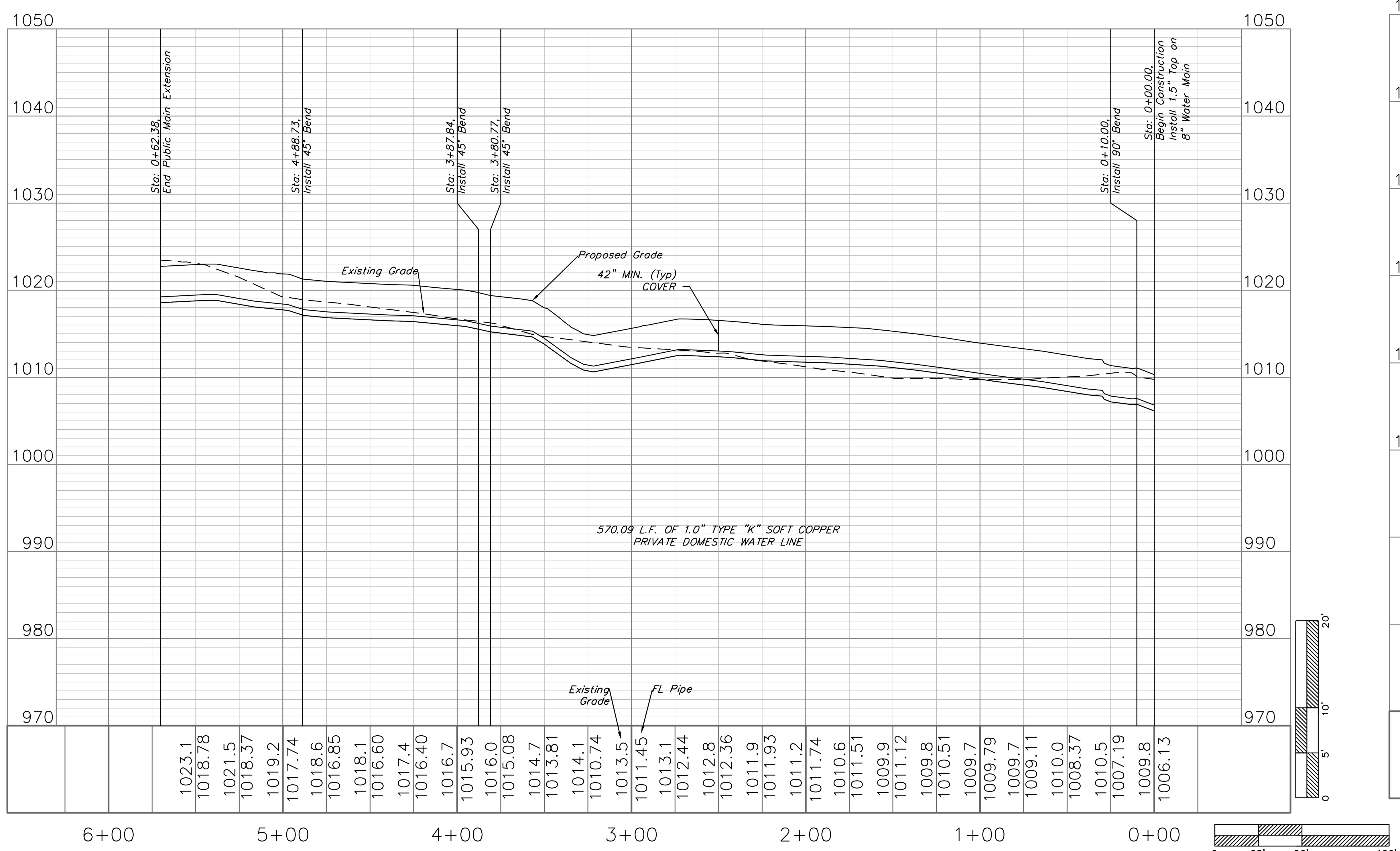
REV. 01-03-18

C.500

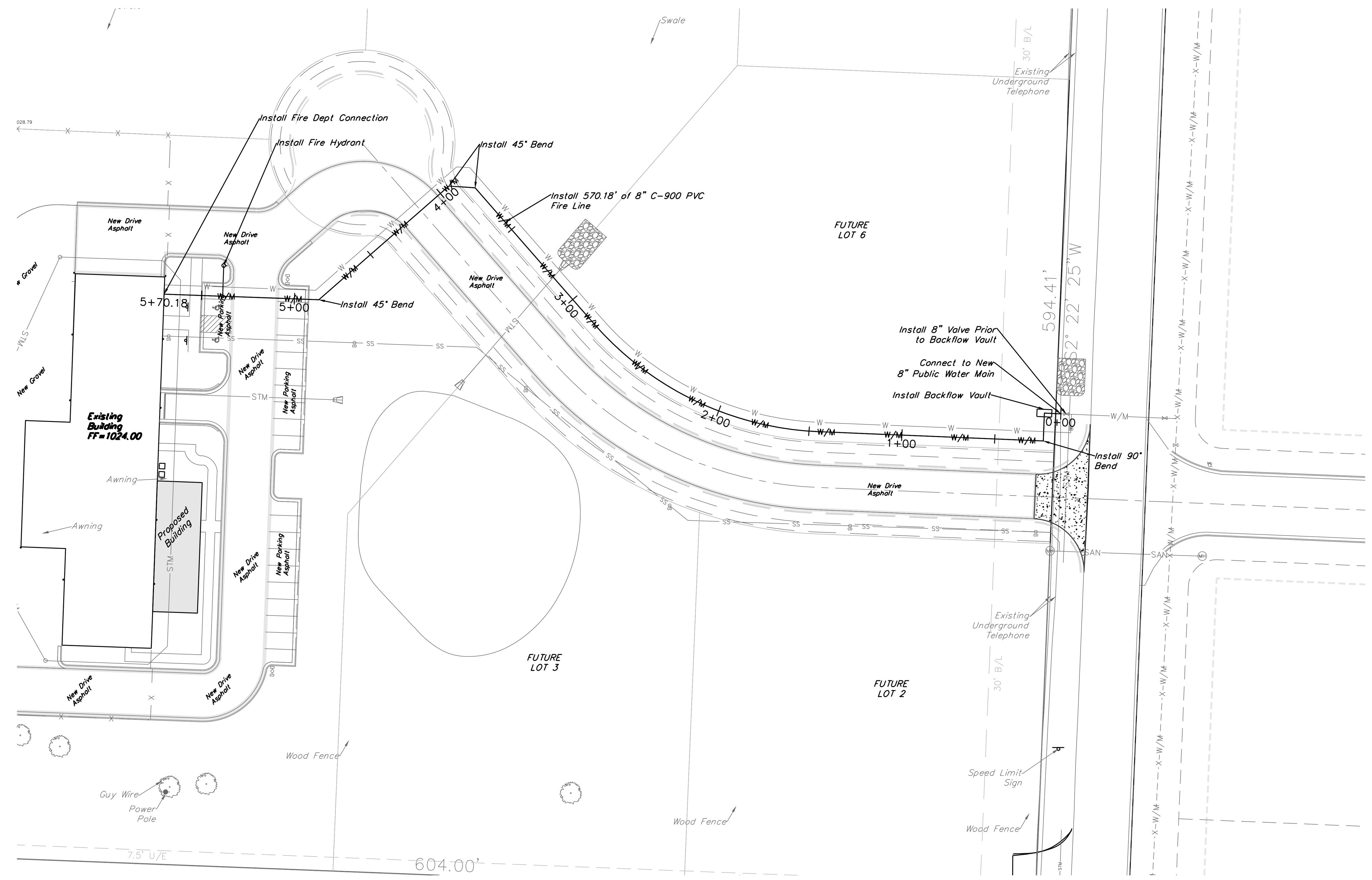
WATER PLAN & PROFILE
SCALE: 1" = 50'



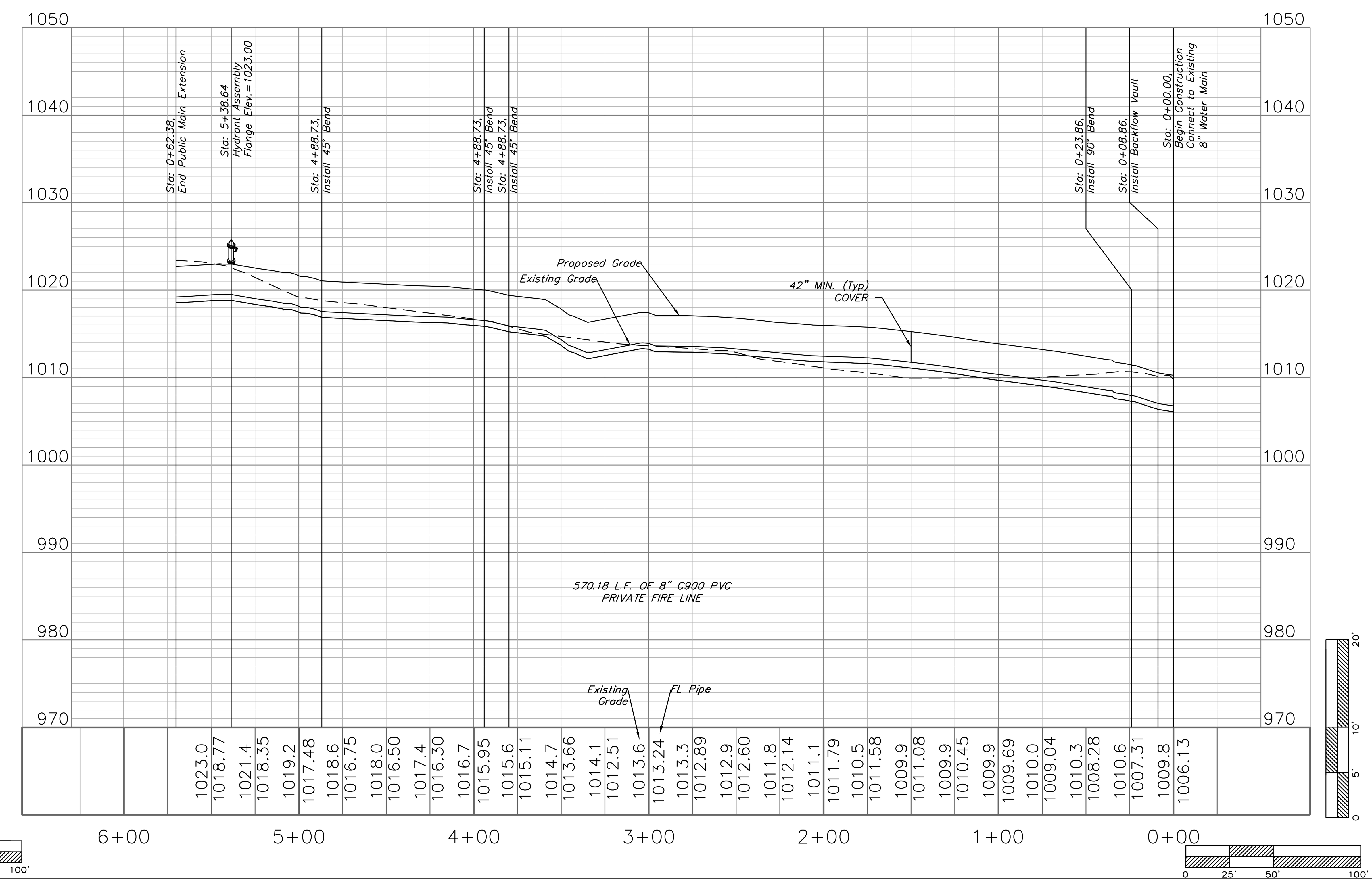
PRIVATE DOMESTIC LINE 1



WATER PLAN & PROFILE
SCALE: 1" = 50'



PRIVATE FIRE LINE 1



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Engineering CA2821

1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

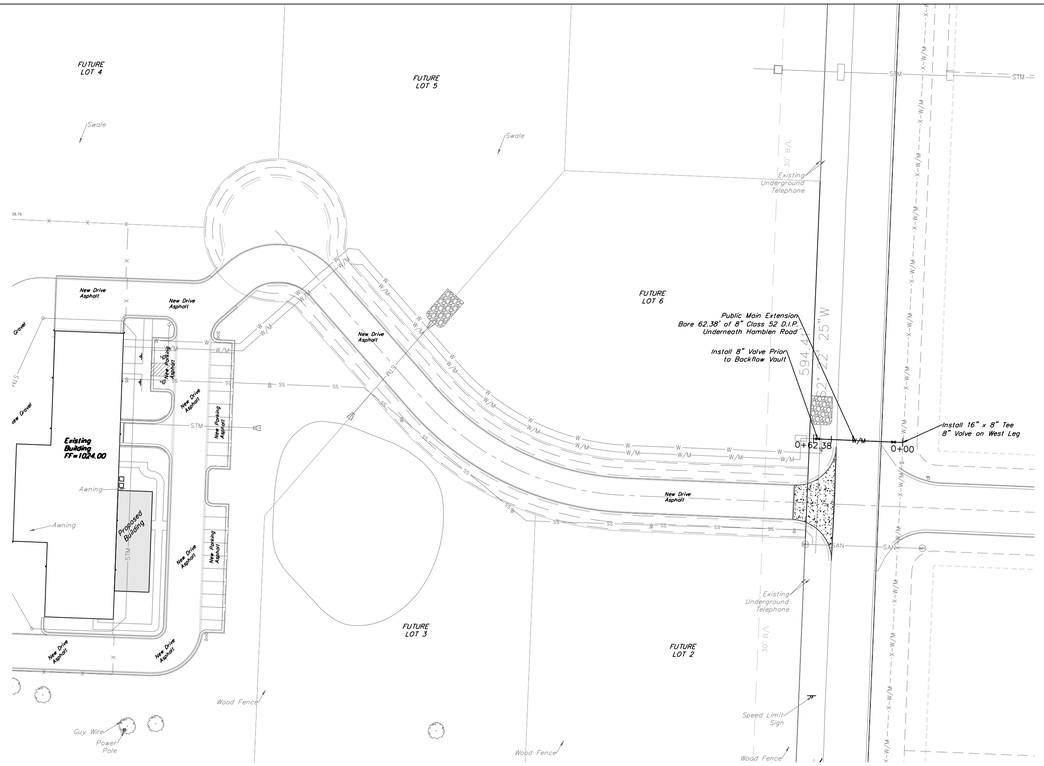
Project: 1600 SE HAMBLEN RD LEES SUMMIT MO
Issue Date: August 4, 2017

WATER PLAN & PROFILE
Tailormade Landing
1600 Hamblen Road
Lees Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

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REV. 12-14-17
REV. 01-03-18

C.501

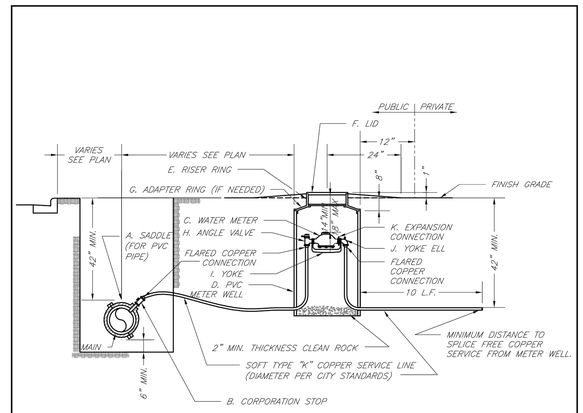


North

0 25' 50' 100'

WATER PLAN & PROFILE

SCALE: 1" = 50'



TYPICAL METER INSTALLATION – 2" AND SMALLER
NOT TO SCALE

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"

LS	**LEE'S SUMMIT** MISSOURI 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:

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50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P:(816) 623-9888 F:(816)623-9849

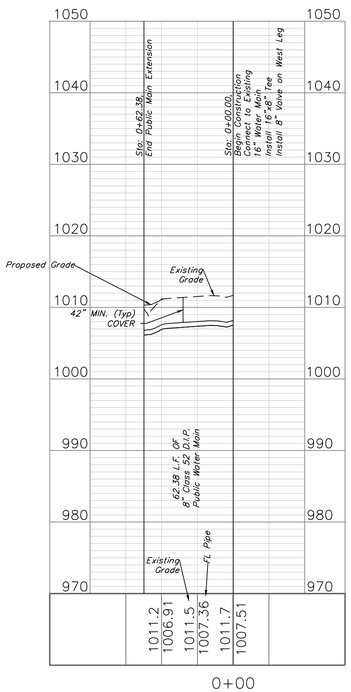
Professional Registration
Missouri
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Surveying 2005008319-D
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Surveying LS-218
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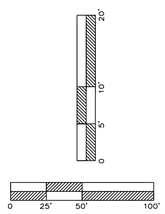
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

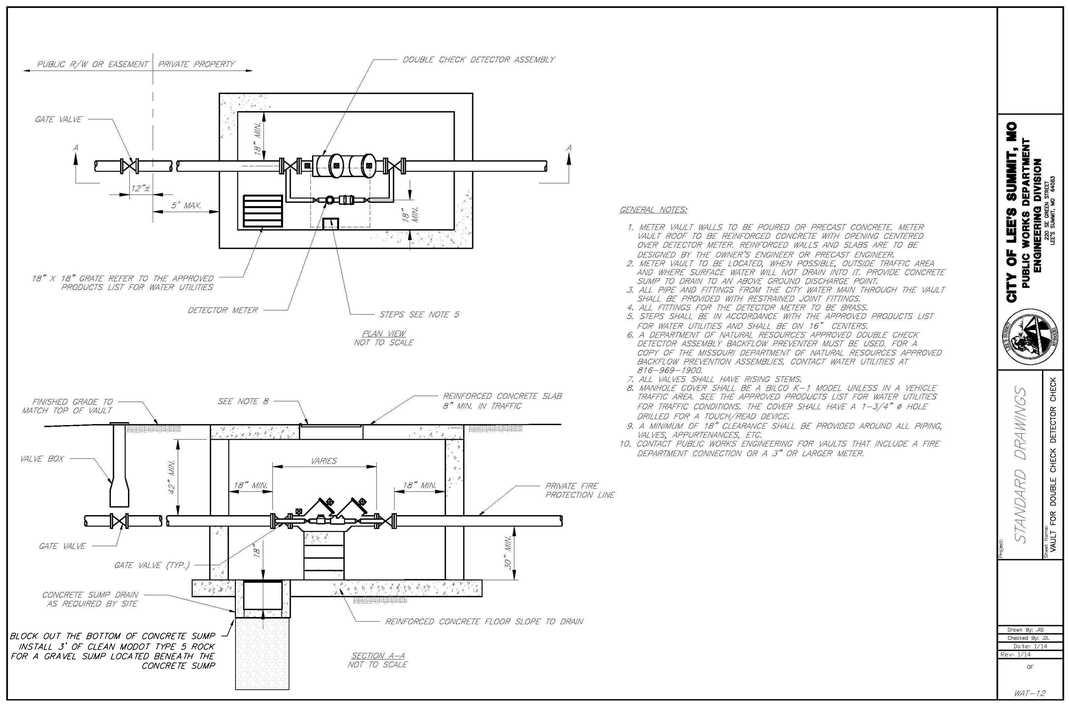
Project: 1600 SE HAMBLEN RD LEES SUMMIT,MO
Issue Date: August 4, 2017

WATER PLAN & PROFILE
Tallormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

PUBLIC WATER MAIN LINE 1







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 BILCO 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.

CITY OF LEE'S SUMMIT, MO
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION
LEE'S SUMMIT, MO 64063

Project: STANDARD DRAWINGS
Detail Name: VAULT FOR DOUBLE CHECK DETECTOR CHECK

Drawn By: JG
Checked By: DL
Date: 1/14
Rev: 1/14
or

WAT–12

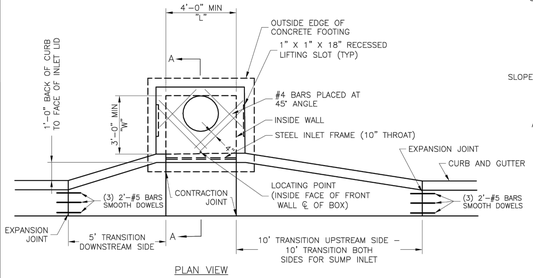
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E–14335

REVISIONS

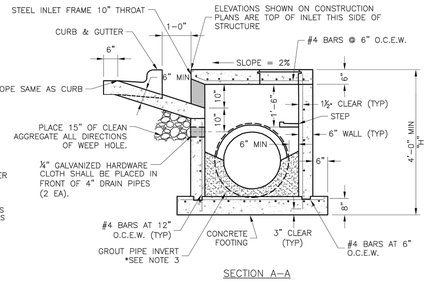
REV. 12–14–17

REV. 01–03–18

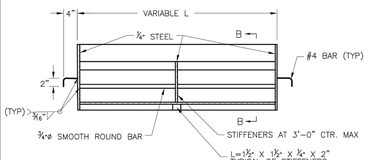
C.502



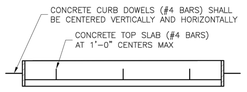
PLAN VIEW



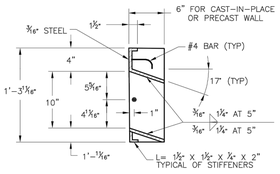
SECTION A–A



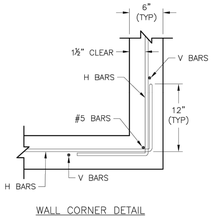
FRONT ELEVATION



PLAN VIEW



SECTION B–B



WALL CORNER DETAIL

STEEL FRAME NOTES:
1. ALL WELDS SHALL BE PERFORMED IN ACCORDANCE WITH APPROPRIATE AWS SPECIFICATIONS AND PROCEDURES.
2. ALL WELDS ON EXPOSED SURFACES SHALL BE DRESSED SO AS TO PROVIDE A PLEASING FINISHED APPEARANCE.
3. THE ENTIRE FRAME SHALL BE PAINTED A SINGLE COAT OF CHEM–PRIME #37H–78 PRIMER (GRAY) OR EQUAL.

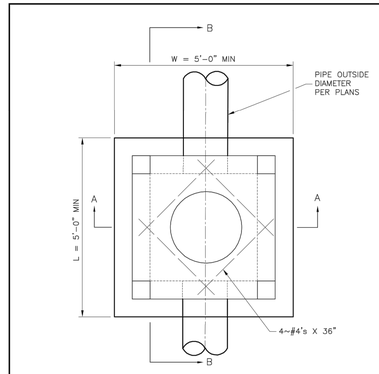
GENERAL NOTES:
1. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION.
2. FLOW LINES LISTED ON THE PROJECT PLANS ARE LISTED AT THE INSIDE FACE OF THE WALL.
3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
4. LOCATE MH RING AND COVER ON BLANK WALL IF POSSIBLE.
5. STEPS SHALL BE SPACED AT 1'–4" O.C. VERTICALLY ON BLANK WALL IF POSSIBLE.
6. BEVEL ALL EXPOSED EDGES WITH ¾"CHAMFER OR ½" TOOLED EDGE.
7. ON–GRADE INLETS SHALL CONFORM TO THE STREET GRADE AND SUMP INLETS SHALL BE LEVEL.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON–SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. LIFTING RINGS SHALL BE REMOVED AND SEALED WITH NON–SHRINKABLE GROUT
10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

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

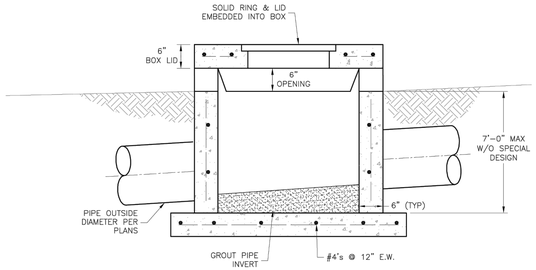
Project: STANDARD DETAILS CITY OF LEE'S SUMMIT, MO LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: CURB INLET DETAIL

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

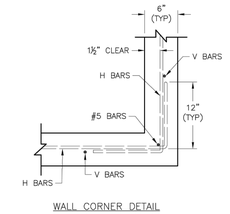
STM-1



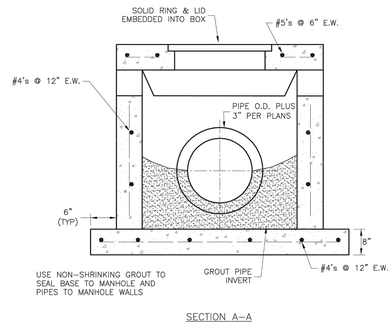
PLAN VIEW



SECTION B–B



WALL CORNER DETAIL



SECTION A–A

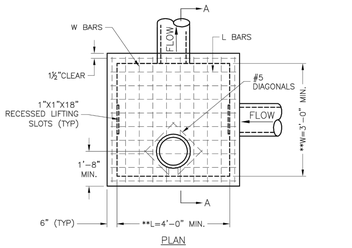
GENERAL NOTES:
1. LOCATE RING AND COVER OVER OUTLET ON BLANK WALL.
2. USE ¾" CHAMFER ON ALL EXPOSED CONCRETE CORNERS.
3. FLOOR OF INLET GROUTED AND SHAPED TO MATCH PIPE INVERT TO PROVIDE SMOOTH FLOW.
4. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 3' ON BLANK WALL IF POSSIBLE.
5. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE.
6. THE MINIMUM REINFORCING SHALL BE 1 H–BAR OVER A CAST–IN–PLACE PIPE AND 2 H–BARS OVER A PRECAST BOXOUT.
7. SHOW FIELD INLET ORIENTATION ON PLANS PLUS NUMBER AND SIDE OF OPENINGS.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON–SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

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

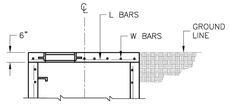
Project: STANDARD DETAILS CITY OF LEE'S SUMMIT, MO LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: FIELD INLET DETAIL

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

STM-2



PLAN

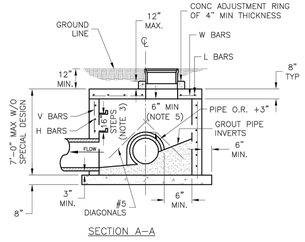


SLAB TOP ALTERNATE FOR JUNCTION BOX (SHALLOW)

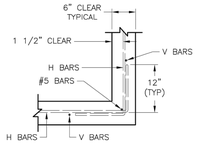
** INCREASE IN MULTIPLES OF 6" (7'–0") MAX WITHOUT SPECIAL DESIGN. (SEE PROJECT PLANS FOR DETAILS)

REINFORCING

BARS	BAR SIZE	SPACING (IN.)
H	4	12
V	4	12
L	5	6
W	5	6



SECTION A–A



WALL CORNER DETAIL

GENERAL NOTES:
1. LOCATE RING AND COVER ON BLANK WALL.
2. USE ¾" CHAMFER STRIP OR ½" R EDGER TOOL ON ALL EXPOSED CONCRETE CORNERS.
3. STEPS REQUIRED AT 16" O.C. WHEN DEPTH FROM TOP OF CASTING TO INVERT EXCEEDS 4' ON BLANK WALL IF POSSIBLE.
4. BOXOUTS WILL NOT BE ALLOWED TO PROJECT THROUGH THE CORNERS OF THE STRUCTURE AND THE MINIMUM DISTANCE BETWEEN BOXOUTS IS 6".
5. THE MINIMUM REINFORCING SHALL BE 1 H–BAR OVER A CAST–IN–PLACE PIPE AND 2 H–BARS OVER A PRECAST BOXOUT.
8. PRECAST LIDS SHALL BE PINNED, SEALED WITH NON–SHRINKABLE GROUT AND REMOVABLE FOR FUTURE MAINTENANCE.
9. REINFORCING OF COVERS IN STREETS REQUIRE SPECIAL DESIGN.
10. FOR RING AND COVER SEE THE STORMWATER APPROVED PRODUCT LIST.

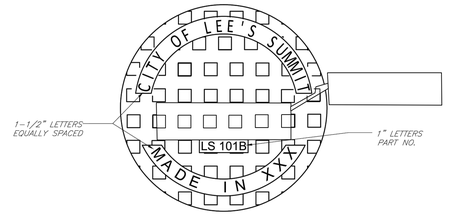
LEE'S SUMMIT MISSOURI
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063

Project: STANDARD DETAILS CITY OF LEE'S SUMMIT, MO LEE'S SUMMIT, JACKSON COUNTY, MO
Sheet Name: JUNCTION BOX DETAIL

Drawn By: MJF
Checked By: DL
Date: 04/17
Proj. #:

STM-3

PRIVATE MANHOLE LID



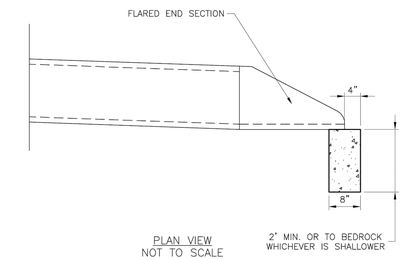
STANDARD 24" MANHOLE COVER
LEE'S SUMMIT PART NO: LS101B
MINIMUM WEIGHT = 160 LB
MATCHING FRAME: LS101A
NOTE: PICK HOLES NOT SHOWN

NOTE:
A BLANK LID WILL BE USED FOR ALL PRIVATE SANITARY SEWERS AND PRIVATE STORMWATER STRUCTURES.

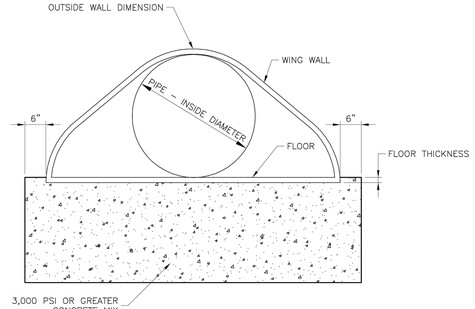
CITY OF LEE'S SUMMIT, MO
PUBLIC WORKS DEPARTMENT
ENGINEERING DIVISION

STANDARD 24" MANHOLE COVER

Date: 09/16/04
Drawn By: JN
Checked By: -
FILE: SANITARY SEWER–2
Rev: 04/05/07
Rev: 12/12



PLAN VIEW
NOT TO SCALE



END VIEW
NOT TO SCALE

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

FLARED END SECTION SUPPORT DETAIL

Date: 04/17
Drawn By: MJF
Checked By: DL

STM-5

ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P:(816) 623-9888 F:(816)623-9849

Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Project: 1600 SE HAMBLEN RD LEES SUMMIT, MO
Issue Date: August 4, 2017

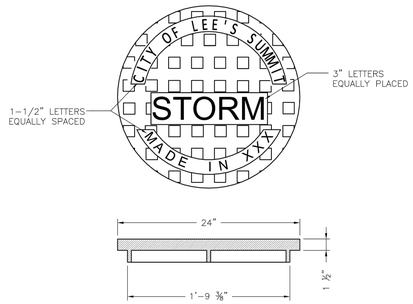
DETAIL SHEET
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E–14335

REVISIONS
REV. 12–14–17
REV. 01–03–18

C.600

PUBLIC MANHOLE LID



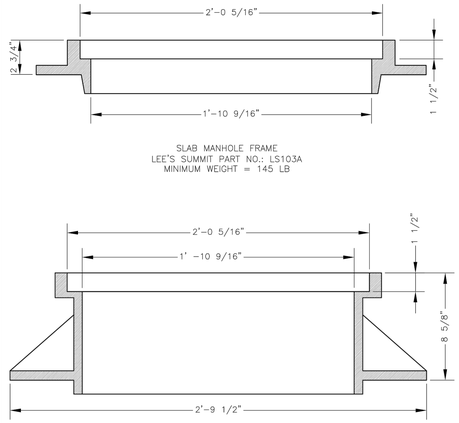
STANDARD 24" MANHOLE COVER
MINIMUM WEIGHT = 160 LB
NOTE: PICK HOLES NOT SHOWN

*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCT LIST.

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

STORM MANHOLE COVER DETAIL — STM-6

Date: 04/17 | Drawn By: MJF | Checked By: DL



SLAB MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS103A
MINIMUM WEIGHT = 145 LB

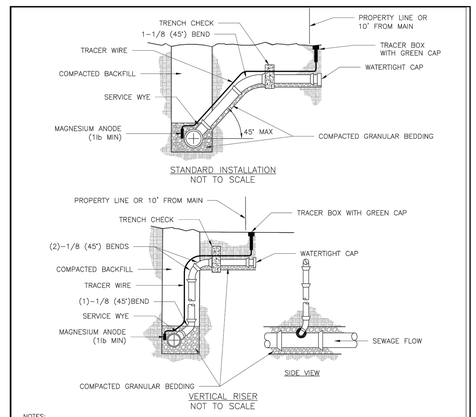
STANDARD 24" MANHOLE FRAME
LEE'S SUMMIT PART NO.: LS101A
MINIMUM WEIGHT = 250 LB

*COVER AND FRAME MODEL INFORMATION REFER TO THE STORMWATER APPROVED PRODUCTS LIST.

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

STORM MANHOLE FRAME DETAIL — STM-7

Date: 04/17 | Drawn By: MJF | Checked By: DL



STANDARD INSTALLATION
NOT TO SCALE

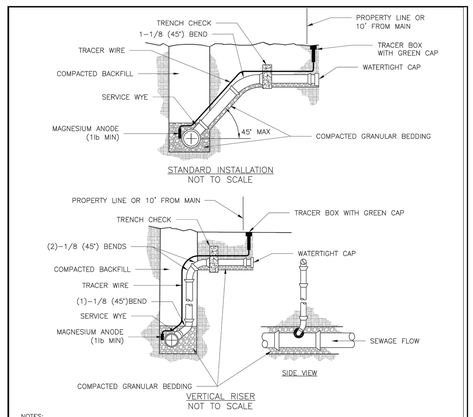
VERTICAL RISER
NOT TO SCALE

NOTES:
1. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN. WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
2. ALL NEW CONSTRUCTION OFF SEWER STUBS SHALL BE TEMPORARILY MARKED WITH A MARKING STAKE, 36" ABOVE GROUND AND PAINTED GREEN.
3. IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
4. TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH SHALL BE A MINIMUM OF 12". THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
5. SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
6. #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
7. FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
8. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.
9. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.

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

BUILDING SEWER STUB AND RISER — SAN-1

Date: 04/17 | Drawn By: MJF | Checked By: DL



STANDARD INSTALLATION
NOT TO SCALE

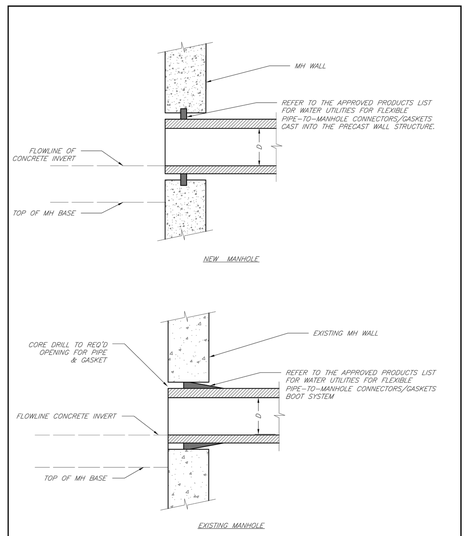
VERTICAL RISER
NOT TO SCALE

NOTES:
1. ALL SEWER STUBS SHALL BE CONSTRUCTED TO PROPERTY LINE OR 10' MINIMUM FROM THE MAIN. WHERE SIDEWALKS ARE PRESENT, CONTRACTOR SHALL EXTEND SERVICE LINE UNDER EXISTING SIDEWALK TO TWO FEET BEYOND.
2. ALL NEW CONSTRUCTION OFF SEWER STUBS SHALL BE TEMPORARILY MARKED WITH A MARKING STAKE, 36" ABOVE GROUND AND PAINTED GREEN.
3. IMPERVIOUS TRENCH CHECKS SHALL BE PLACED ON BUILDING SEWER STUBS (AT LEAST 5' AWAY FROM THE SANITARY SEWER MAIN).
4. TRENCH CHECKS ON THE BUILDING SEWER STUBS SHALL EXTEND 6" BELOW THE BOTTOM OF THE PIPE. LENGTH SHALL BE A MINIMUM OF 12". THE HEIGHT OF THE TRENCH CHECK SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE. THE WIDTH OF THE TRENCH CHECK SHALL BE THE WIDTH OF THE TRENCH.
5. SEE SPECIFICATION SECTION 2100 FOR SEWER MAIN BEDDING AND BACKFILL.
6. #12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED. TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER SERVICE OR AS DETERMINED BY THE ENGINEER.
7. FOR SERVICES, TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATE IN A FLUSH MOUNTED TRACER BOX WITH A GREEN CAST IRON LOCKABLE TOP. WIRE SHALL BE TAPED OR TIED TO THE PIPE AT 5' INTERVALS.
8. TRACER WIRE BOX SHALL BE INSTALLED WITHIN 1.0' OF PROPERTY LINE.
9. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE. SPLICES IN THE TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION.

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

BUILDING SEWER STUB AND RISER — SAN-1

Date: 04/17 | Drawn By: MJF | Checked By: DL



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

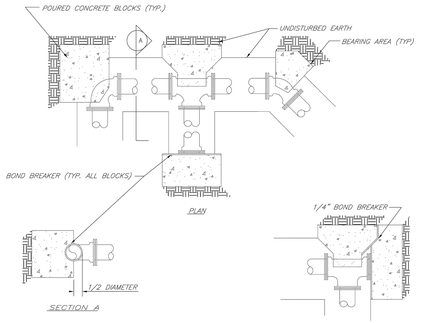
MANHOLE WALL CONNECTIONS

Date: 02/13 | Drawn By: JN | Checked By: DL | FILE: SAN-5 | Rev: 1/14 | Rev:

REQUIRED CONCRETE BEARING AREA (SQUARE FEET - SF)

NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	4.7	6.7	4.0	4.0	4.0
8	8.4	11.8	6.4	4.0	4.0
10	13.1	18.5	10.0	5.1	4.0
12	18.8	26.7	14.4	7.4	4.0
14	25.7	36.3	19.6	10.0	5.0
16	33.5	47.4	25.6	13.1	6.6
18	42.4	REST. JT.	32.5	16.5	8.3
20	REST. JT.	REST. JT.	40.1	20.4	10.3
24	REST. JT.	REST. JT.	REST. JT.	29.4	14.8

NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
3. BEARING AREA MUST BE AGAINST UNDISTURBED SOIL.
4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



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

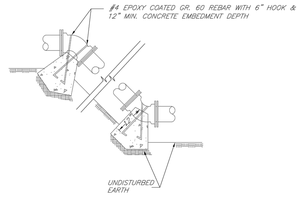
HORIZONTAL THRUST BLOCKS

Date: 02/13 | Drawn By: JN | Checked By: DL | FILE: WAT-1 | Rev: 1/14 | Rev:

REQUIRED CONCRETE VOLUME (CUBIC FEET - CF)

NOM. DIA. (INCHES)	180 TEE, PLUG	90 BEND	45 BEND	22.5 BEND	11.25 BEND
6	50.5	71.4	38.6	19.7	9.9
8	89.8	126.9	68.7	35.0	17.6
10	140.2	198.3	107.3	54.7	27.5
12	202.0	REST. JT.	154.6	78.8	39.6
14	REST. JT.	REST. JT.	210.4	107.3	53.9
16	REST. JT.	REST. JT.	REST. JT.	140.1	70.4
18	REST. JT.	REST. JT.	REST. JT.	177.1	89.1
20	REST. JT.	REST. JT.	REST. JT.	REST. JT.	110.0
24	REST. JT.	REST. JT.	REST. JT.	REST. JT.	158.4

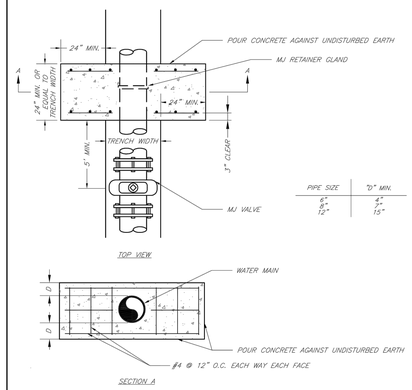
NOTES:
1. ALL BENDS WITHOUT RESTRAINED JOINTS SHALL HAVE CONCRETE THRUST BLOCKS INSTALLED FOR RESTRAINT.
2. MEGA LUGS MAY BE USED ONLY IN CONJUNCTION WITH CONCRETE THRUST BLOCKING.
3. BEARING MUST BE AGAINST UNDISTURBED SOIL.
4. DO NOT COVER JOINTS OR BOLTS (WHERE APPLICABLE) WITH CONCRETE.



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

VERTICAL THRUST BLOCKS

Date: 02/13 | Drawn By: JN | Checked By: DL | FILE: WAT-2 | Rev: 1/14 | Rev:



NOTE:
THIS DETAIL NOT TO BE USED FOR PIPE GREATER THAN 12"

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

STRADDLE BLOCK

Date: 02/13 | Drawn By: JN | Checked By: DL | FILE: WAT-3 | Rev: 1/14 | Rev:

ENGINEERING SOLUTIONS
ENGINEERING & SURVEYING
50 SE 30TH STREET
LEE'S SUMMIT, MO 64082
P:(816) 623-9888 F:(816)623-9849

Professional Registration
Missouri
Engineering 2005002186-D
Surveying 2005008319-D
Kansas
Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

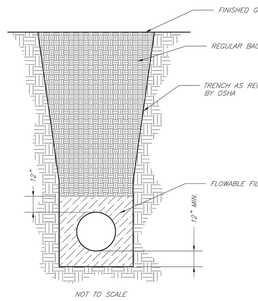
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Project: 1600 SE HAMBLEN RD LEES SUMMIT,MO
Issue Date: August 4, 2017

DETAIL SHEET
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

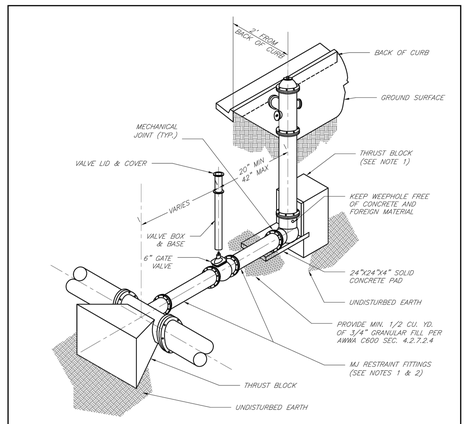
Matthew J. Schlicht
MO PE 2006019708
KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS
REV. 12-14-17
REV. 01-03-18



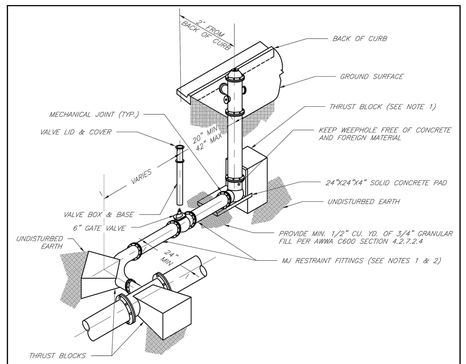
NOTES:
1. FLOWABLE FILL SHALL MEET THE REQUIREMENTS OF THE CITY OF LEE'S SUMMIT DESIGN AND CONSTRUCTION MANUAL.
2. REGULAR BACKFILL ABOVE THE TRENCH CHECK SHALL BE FREE OF DEBRIS, ORGANIC MATTER, AND STONES > 6" IN ANY DIMENSION.
3. TOP OF FLOWABLE BACKFILL SHALL EXTEND 12" ABOVE THE TOP OF THE PIPE.
4. LENGTH OF TRENCH CHECK SHALL BE A MINIMUM OF 12'.

LEE'S SUMMIT MISSOURI	Date: 02/13
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063	Drawn By: JN
TRENCH CHECK	Checked By: DL
	FILE: WAT-6
	Rev: 1/14
	Rev:



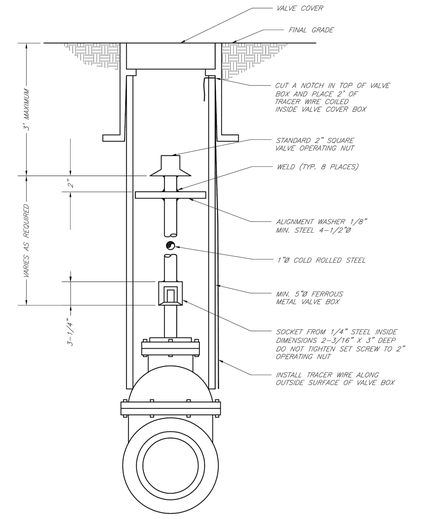
NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
3. SEE APPROVED PRODUCTS LIST FOR WATER UTILITIES FOR FIRE HYDRANT, VALVES, VALVE BOX LID, AND COVER.
4. BOTTOM 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.

LEE'S SUMMIT MISSOURI	Date: 02/13
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063	Drawn By: JN
HYDRANT INSTALLATION – STRAIGHT SET	Checked By: DL
	FILE: WAT-7
	Rev: 1/14
	Rev:

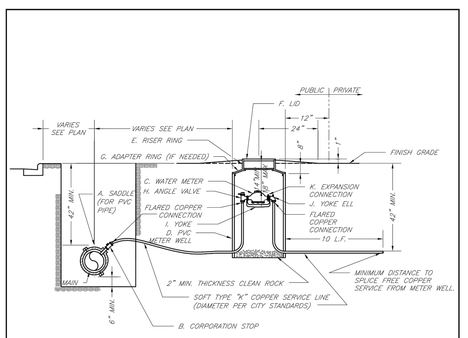


NOTES:
1. WHEN RETAINER GLANDS ARE USED IN LIEU OF MECHANICAL JOINT (MJ) RESTRAINT FITTINGS, HORIZONTAL THRUST BLOCKS ARE REQUIRED.
2. GATE VALVE MAY BE BOLTED DIRECTLY TO MJ RESTRAINT TEE.
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6. HYDRANT SHALL BE ROTATED AS DIRECTED BY INSPECTOR.

LEE'S SUMMIT MISSOURI	Date: 02/13
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063	Drawn By: JN
HYDRANT WITH 90 DEGREE BEND	Checked By: DL
	FILE: WAT-8
	Rev: 1/14
	Rev:



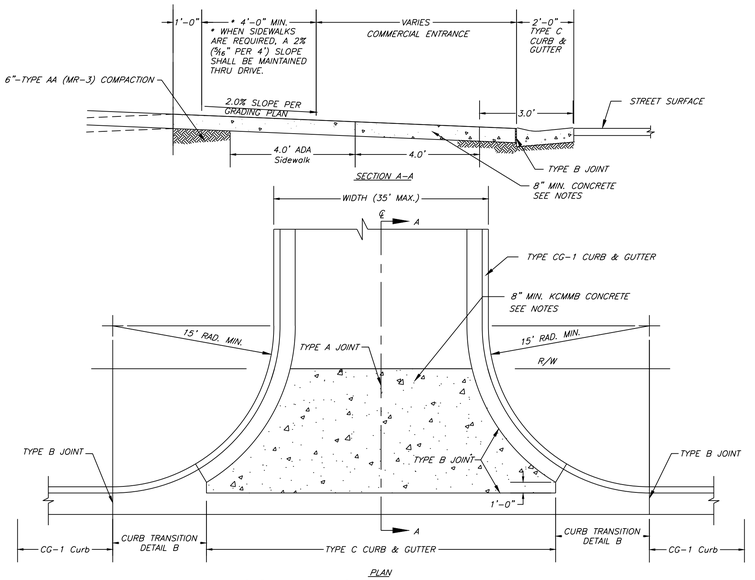
LEE'S SUMMIT MISSOURI	Date: 02/13
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063	Drawn By: JN
VALVE STEM EXTENSION AND VALVE BOX	Checked By: DL
	FILE: WAT-9
	Rev: 1/14
	Rev:



TYPICAL METER INSTALLATION – 2" AND SMALLER
NOT TO SCALE

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"

LEE'S SUMMIT MISSOURI	Date: 02/13
PUBLIC WORKS ENGINEERING DIVISION | 220 SE GREEN STREET | LEE'S SUMMIT, MO 64063	Drawn By: JN
SERVICE CONNECTION/METER WELL	Checked By: DL
	FILE: WAT-11
	Rev: 1/14
	Rev:



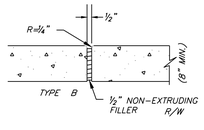
PLAN

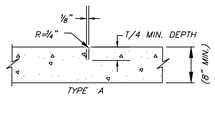
COMMERCIAL ENTRANCE

NOT TO SCALE

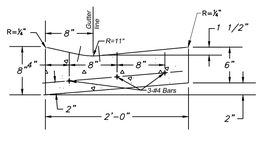
COMMERCIAL DRIVE NOTES:
1. THE TOP 6" OF DRIVEWAY SUBGRADE SHALL BE COMPACTED TO 95% OF STANDARD MAXIMUM DENSITY.
2. ALL CONCRETE POURED ON THE ROW (SIDEWALK, DRIVE APPROACH, CURBS) SHALL UTILIZE AN APPROVED KCMMB-4k CONCRETE MIX DESIGN.
3. EXPANSION JOINT FILLER AND JOINT SEALING COMPOUND SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2209.2 (APWA).
4. CURING MEMBRANES SHALL CONFORM TO STANDARD SPECIFICATIONS SECTION 2208.2.F (APWA).
5. 6 x 6-W2.9 x W2.9 REINFORCING SHALL BE PLACED IN CENTER OF SLAB THICKNESS.
6. CONTRACTION JOINTS SHALL BE SPACED AT 12' MAX., BOTH DIRECTIONS.
7. INSTALL TWO ⅜"ø x 2' SMOOTH DOWELS AT JOINTS FOR TYPE "C" CURB. SEE CURB STANDARDS FOR PLACEMENT.
8. FORM ¾" LIP AT PAVEMENT LINE ON DRIVES IN TYPE "B" CURBS.
9. TRUNCATED DOMES ARE NOT TO BE INSTALLED AT THE COMMERCIAL ENTRANCE.

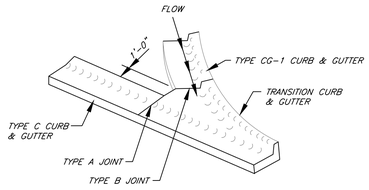
JOINT DETAILS





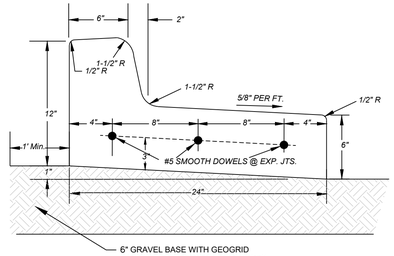
STANDARD TYPE "C" CURB & GUTTER





DETAIL B

TYPE CG-1
STRAIGHT BACK CURB & GUTTER N.T.S.



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Surveying 2005008319-D
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Engineering E-1695
Surveying LS-218
Oklahoma
Engineering 6254
Nebraska
Engineering CA2821

Project: 1600 SE HAMBLEN RD LEE'S SUMMIT MO
Issue Date: August 4, 2017

DETAIL SHEET
Tailormade Landing
1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

1600 Hamblen Road
Lee's Summit, Jackson County, Missouri

Matthew J. Schlicht
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KS PE 19071
OK PE 25226
NE PE E-14335

REVISIONS
REV. 12-14-17
REV. 01-03-18

C.602

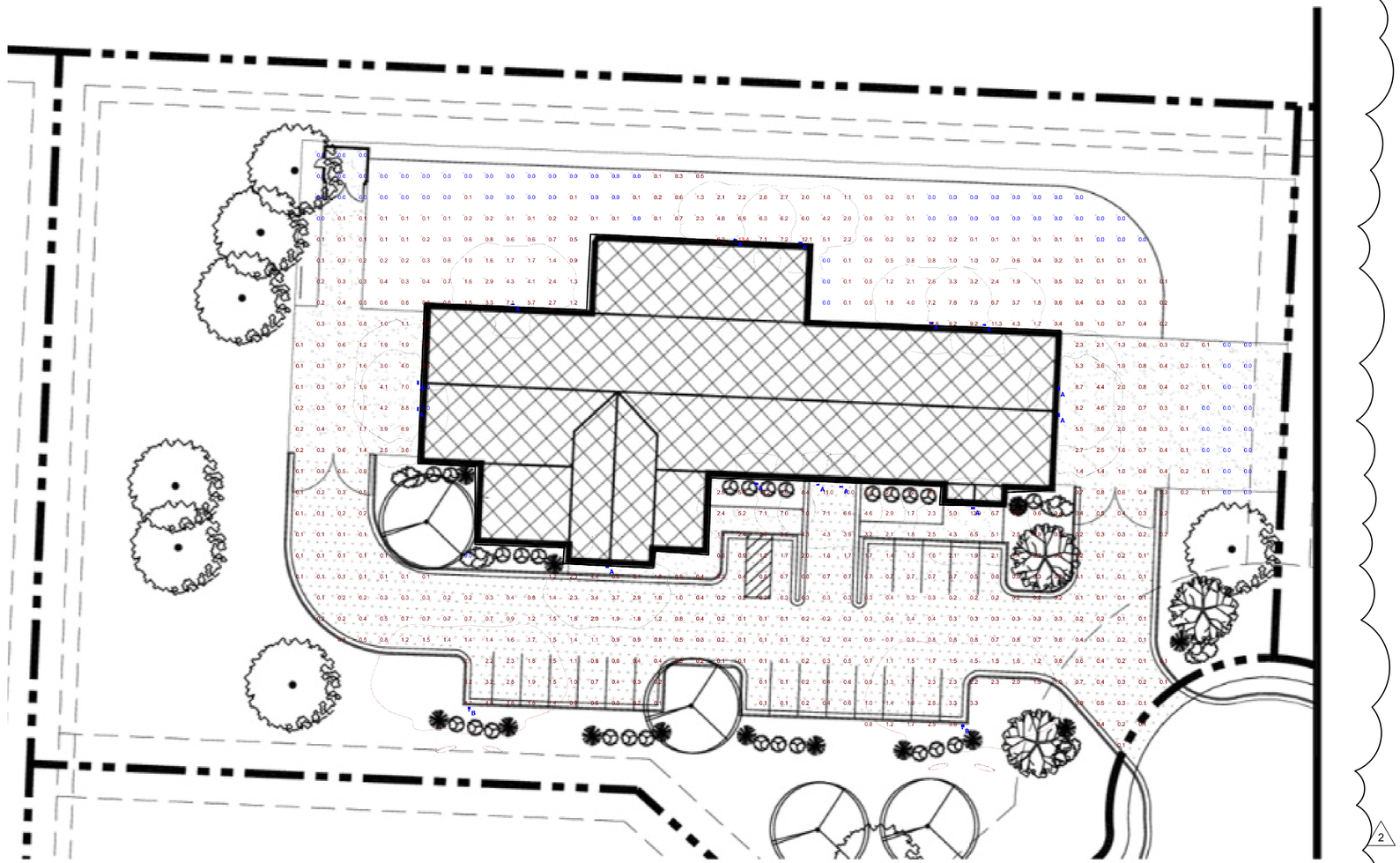
Schedule											
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens Per Lamp	Light Loss Factor	Wattage
	A	14	Lithonia Lighting	DSXW1 LED 20C 1000 40K T4M MVOLT	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE T4M OPTIC, 4000K, @ 1000mA.	LED	1	DSXW1_LED_20C_1000_40K_T4M_MVOLT.ies	7420	0.88	73.2
	B	2	Lithonia Lighting	DSX0 LED 40C 1000 40K T3M MVOLT	DSX0 LED with 40 LEDs @1000 mA , 4000K, Type 3 Medium Optics	LED	1	DSX0_LED_40C_1000_40K_T3M_MVOLT.ies	15027	0.88	138

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Calc Zone #2	+	1.3 fc	13.4 fc	0.0 fc	N/A	N/A

Note

1. TYPE B POLE MOUNTED FIXTURES MOUNTED ON A 20' POLE.

2



PHOTOMETRIC PLAN
1 SCALE: 1" = 20'-0"

N

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(9 1 3) 3 2 2 - 2 4 4 4
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REMODEL FOR
TAILOR MADE LANDING
1600 HAMBLEN RD
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11.08.17

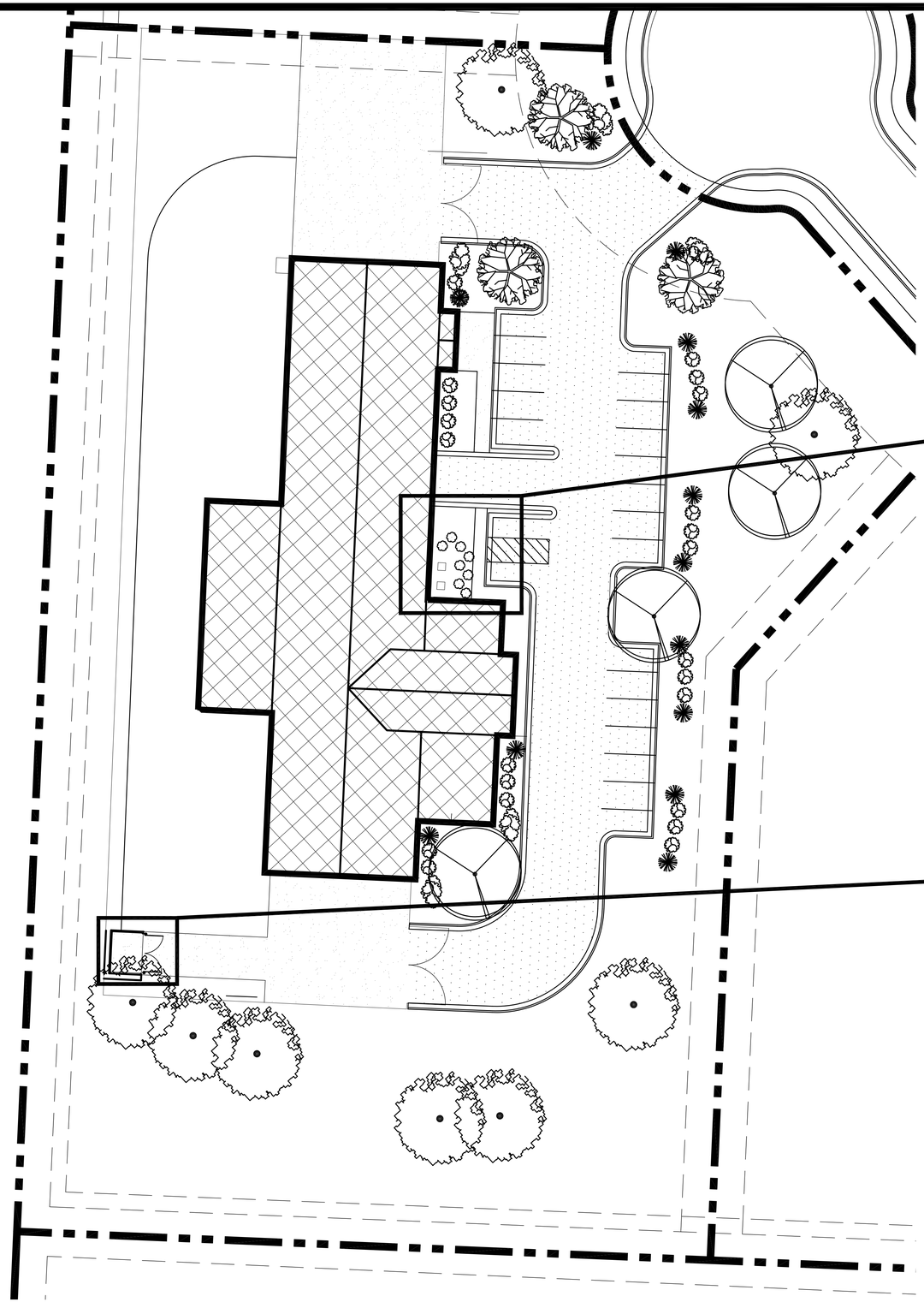
REVISIONS:
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2 12/22/17 CITY COMMENT

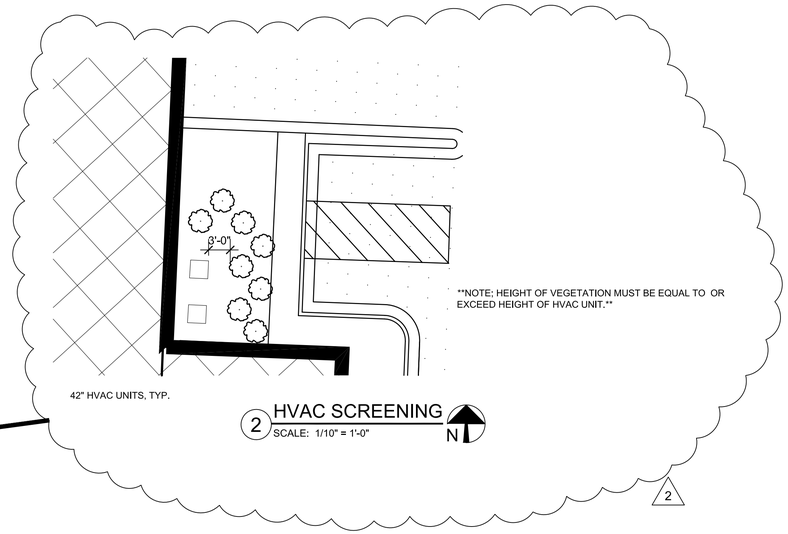
ARCHITECTURAL PROJECT NUMBER
17006

PHOTOMETRIC PLAN
1

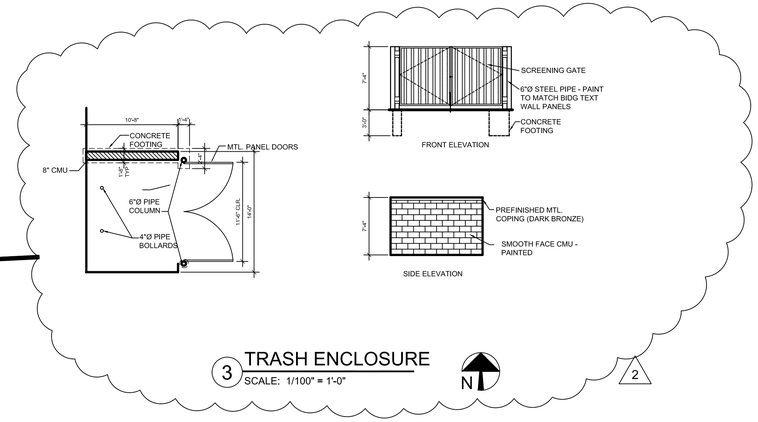
SHEET NUMBER
AS1.9

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2 HVAC SCREENING
SCALE: 1/10" = 1'-0"



3 TRASH ENCLOSURE
SCALE: 1/100" = 1'-0"

TREE LIST

SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	CONDITION	SPACING
	9	RED OAK	QUERCUS RUBRA	2" CAL	BB	AS SHOWN
	21	SKYLINE HONEY LOCUST	GLEDITSIA TRACANTHOS 'SKYLINE'	2" CAL	BB	AS SHOWN
	3	PRAIRIEFIRE CRABAPPLE	MALUS SP. 'PRAIRIEFIRE'	1 1/2" CAL	BB	AS SHOWN

SHRUB LIST

SYMBOL	QUANTITY	COMMON NAME	BOTANICAL NAME	SIZE	SPACING
	11	DWARF WINGED EUONYMUS	EUONYMUS ALATUS 'COMPACTUS'	3 GAL	4' O.C.
	35	SEAGREEN JUNIPER	JUNIPER CHINENSIS 'SEAGREEN'	3 GAL	4' O.C.
	54	WINTERGREEN LITTLELEAF BOXWOOD	BUXUS MICROPHYLLA 'KOREANA WINTERGREEN'	3 GAL	18" O.C.
	8	TAPERED EVERGREEN ARBORVITAE SHRUB MIN 48" HEIGHT	'THUJA OCCIDENTALIS'	3 GAL	36" O.C.

ALL PROPOSED DECIDUOUS TREES SHALL BE A MINIMUM OF 3 INCH CALIPER, MEASURED AT A POINT 6 INCHES ABOVE THE GROUND OR TOP OF THE ROOT BALL, AT PLANTING.

1 LANDSCAPE PLAN
SCALE: 1/20" = 1'-0"

0' 15' 30' 60'
SCALE: 1" = 20'-0"

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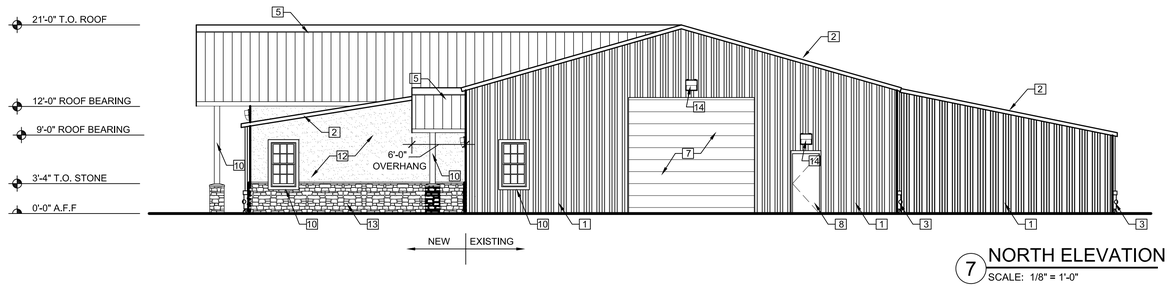
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LANDSCAPE PLAN

SHEET NUMBER
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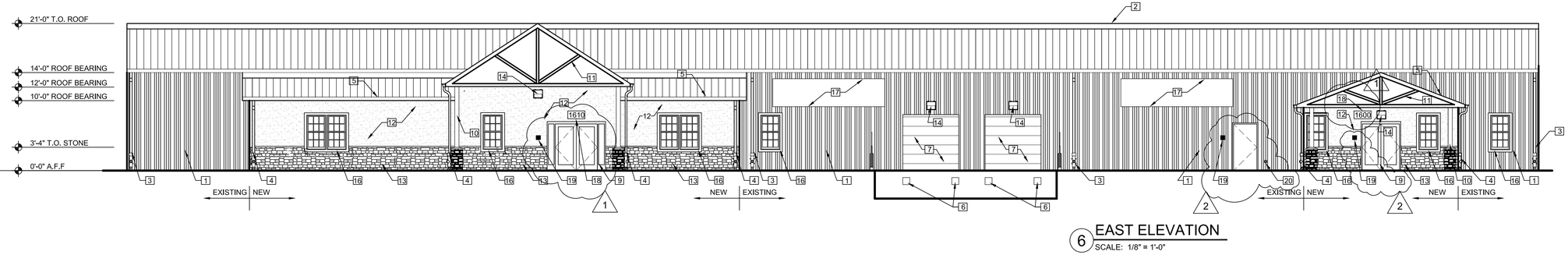
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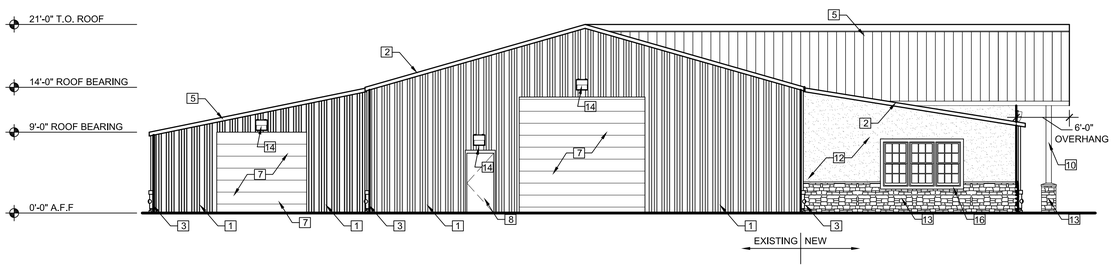
7 NORTH ELEVATION
SCALE: 1/8" = 1'-0"

	BUILDING MATERIALS	
#	COLOR	MATERIAL
1	SANDSTONE	NEW EXTERIOR METAL PANEL
2	RED	EXISTING METAL ROOF AND GUTTERS
3	SANDSTONE	METAL DOWNSPOUTS ON EXISTING BLDG.
4	SANDSTONE	METAL DOWNSPOUTS ON NEW CONST.
5	RED	NEW METAL ROOF, GUTTERS, & DOWNSPOUTS
6	MFR	DOCK BUMPERS
7	WHITE	OVERHEAD DOORS
8	WHITE	ANCILLARY HOLLOW METAL DOORS
9	BRONZE	ALUM. STOREFRONT ENTRY DOORS
10	NATURAL	WOOD COLUMN- NATURAL CEDAR COLUMN
11	NATURAL	WOOD ROOF TRUSS - NATURAL CEDAR BEAMS
12	CLAY	EIFS / STUCCO
13	GRAY OAK	STONE VENEER
14	WHITE	WALLPACK: W4PLED, DIE-CAST ALUM W/ PLOY LENS . EXT. LIGHTING ON EXISTING BLDG. MOUNT BOTTOM OF LIGHT 6" ABOVE TOP OF FRAME.
15	WHITE	WALLPACK: W4PLED, DIE-CAST ALUM, W/ PLOY LENS . EXT. LIGHTING ON NEW CONST. MOUNT BOTTOM OF LIGHT 6" ABOVE TOP OF FRAME.
16	WHITE	ALUM. DOUBLE HUNG WINDOWS
17	TBD	4' X 16' SIGNAGE AREA
18	TBD	BUILDING NUMBER. ADDRESS NUMBERS & LETTERS SHALL BE ARABIC NUMBERS OR ALPHABETIC LETTERS. EACH CHARACTER SHALLNOT BE LESS THAN 3 INCHES HIGH WITH A MINIMUM STROKE WIDTH OF 0.5 INCHES.
19	TBD	KNOX BOX
20	TBD	4" STORZ TYPE FIRE CONNECTION

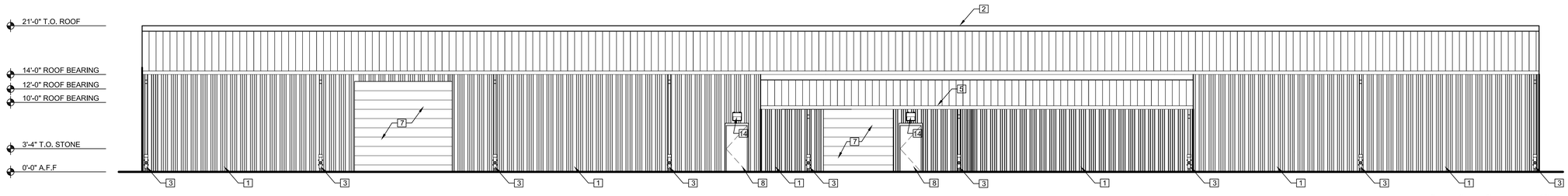
2 1



6 EAST ELEVATION
SCALE: 1/8" = 1'-0"



2 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



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

0' 4' 8' 16'
SCALE: 1/8" = 1'-0"

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BUILDING EXTERIOR ELEVATIONS

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A200

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