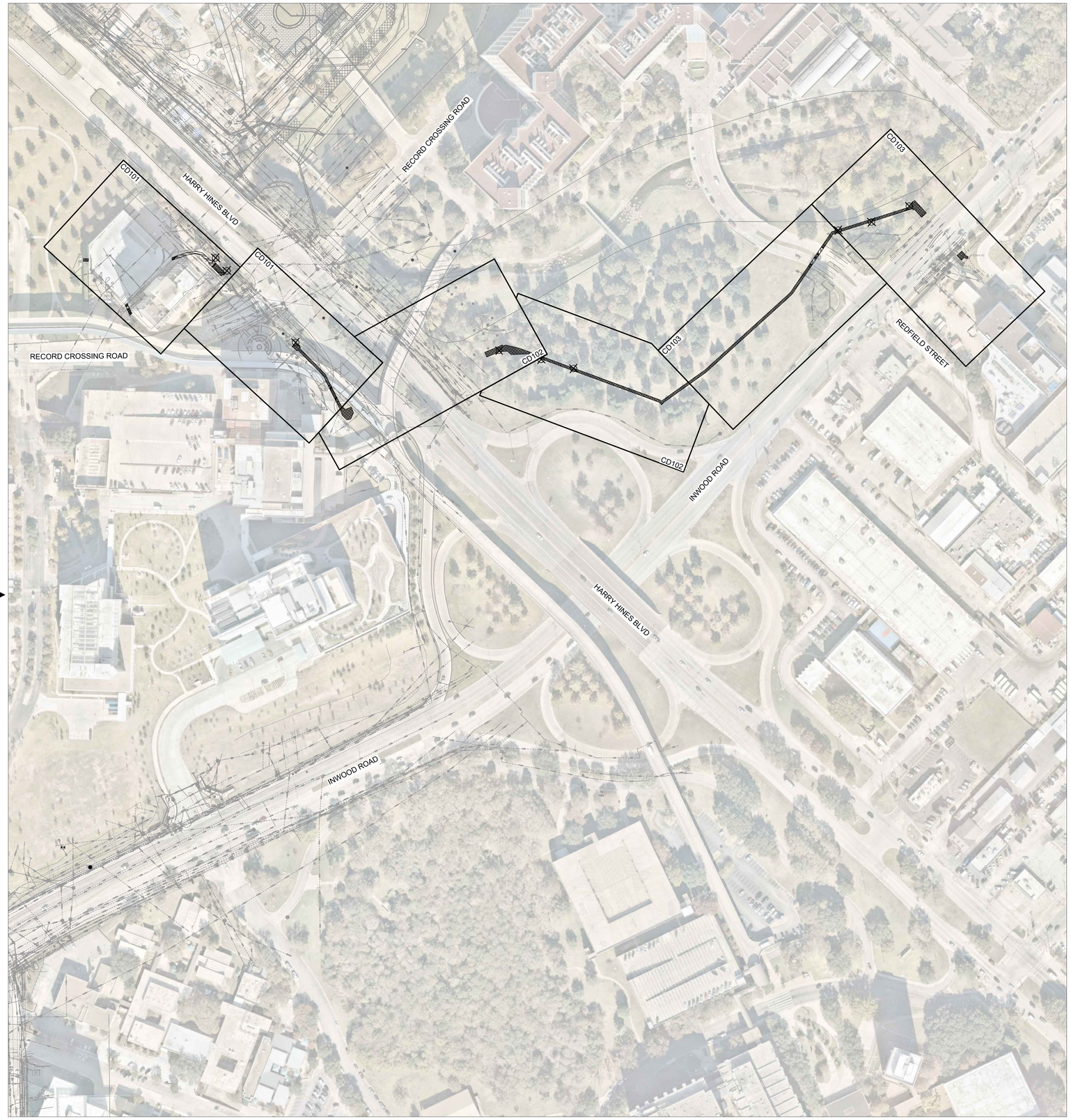


REMOVAL AND RESTOTATION PLAN - OVERALL

0 100' 200'
SCALE IN FEET

NORTH

GENERAL DEMOLITION NOTES:

1. ALL DEMOLITION, WASTE, DEBRIS, AND UNSATISFACTORY MATERIALS SHALL BE DISPOSED OF OFF SITE.
2. LOCATIONS NOTED FOR DEBRIS REMOVAL MAY CONTAIN ANY OF THE FOLLOWING MATERIALS: AGGREGATE, CONCRETE, ASPHALT, MASONRY, FOUNDATIONS, REBAR, FENCE MATERIAL, PIPING, AND MISCELLANEOUS STRUCTURES. LARGE PIECES OF MATERIAL MAY NEED TO BE CRUSHED AND/OR BROKEN UP FURTHER IN ORDER TO BE HAULED AWAY TO THE WASTE DISPOSAL SITE.
3. PAVEMENT DESIGNATED FOR SAWCUT SHALL BE SAWCUT FULL DEPTH.
4. EXISTING PAVEMENT EDGES SHALL BE SAWCUT IN LOCATIONS SHOWN TO PROVIDE CLEAN EDGE FOR CONSTRUCTION OF PROPOSED PAVEMENT.
5. PAVEMENT REMOVAL LIMITS SHALL BE TO THE NEAREST EXISTING PAVEMENT JOINT TO THE GREATEST EXTENT POSSIBLE TO PREVENT PARTIAL PANEL REMOVAL. PAVEMENT REMOVAL SHALL INCLUDE REMOVAL OF PAVEMENT AND ANY SUBBASE MATERIAL PRESENT.
6. ANY DAMAGE TO PAVEMENT AREAS DESIGNATED TO REMAIN SHALL BE REPAIRED OR REMOVED AND REPLACED AT NO ADDITIONAL COST TO OWNER.
7. CONTRACTOR SHALL PRESERVE EXISTING TREES AND VEGETATION WHENEVER PRACTICABLE. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.
8. EXISTING VEGETATION AND FACILITIES WHICH ARE NOT INDICATED TO BE REMOVED SHALL BE PROTECTED FROM DEMOLITION OR OTHER CONSTRUCTION ACTIVITIES.
9. SPECIAL HANDLING AND CONSIDERATION SHALL BE REQUIRED FOR EXCAVATED SOILS THOUGHT TO CONTAIN PETROLEUM-BASED/CONTAMINATED/HAZARDOUS SUBSTANCES. CONTRACTOR SHALL PERIODICALLY MONITOR EXCAVATED SOILS. SOILS SHALL BE TREATED ON SITE OR DISPOSED OF PROPERLY IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS AND THE PROJECT SPECIFICATIONS. CONTRACTOR SHALL COORDINATE REMOVAL OF PETROLEUM-BASED/CONTAMINATED/HAZARDOUS MATERIALS WITH CLIENT REPRESENTATIVE.
10. CONTRACTOR SHALL FOLLOW ALL FEDERAL, STATE, AND SPECIFICATION REQUIREMENTS REGARDING DEMOLITION, HANDLING, AND DISPOSAL OF HAZARDOUS MATERIAL AND HAZARDOUS WASTE.
11. LIMITS OF SURFACE REMOVAL AND RESTORATION SHALL BE DEFINED BY NEW CONSTRUCTION LIMITS. SEE REMOVAL AND RESTORATION, UTILITY DEMOLITION, AND NEW UTILITY DRAWINGS FOR CONSTRUCTION AREAS.
12. SEE EXISTING CONDITIONS NOTES ON V-100.
13. SEE SPECIFICATIONS FOR DEWATERING, INSTRUMENTATION, AND MONITORING INFORMATION.

UTILITY DEMOLITION NOTES:

1. CONTRACTOR SHALL COORDINATE WITH THE CLIENT REPRESENTATIVE PRIOR TO REMOVAL OF EXISTING UTILITIES IN SERVICE. RELOCATED UTILITIES SHALL BE CONSTRUCTED BEFORE REMOVAL OF EXISTING UTILITIES TO ENSURE UNINTERRUPTED SERVICE TO THE FACILITIES SERVED BY THE UTILITY. ALL RELOCATIONS SHALL BE COORDINATED WITH THE CLIENT REPRESENTATIVE.
2. UTILITY CAPPING METHODS SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS FOR SPECIFIC PIPE MATERIAL IN SERVICE. ALL CAPPING SHALL BE INSPECTED AND APPROVED BY THE CLIENT REPRESENTATIVE.
3. ALL STRUCTURES, VALVES, ETC. TO REMAIN SHALL BE PROTECTED AND ADJUSTED TO FINISH GRADE.
4. IN AREAS OF UTILITY REMOVAL OF ABANDONED LINES, THE PORTION OF EXISTING ABANDONED LINES TO REMAIN SHALL BE CAPPED OR PLUGGED AT REMOVAL INTERFACE.
5. ALL UTILITIES EQUAL TO OR GREATER THAN 6.00 INCHES IN DIAMETER AND INDICATED TO BE ABANDONED IN PLACE SHALL BE FILLED WITH A LOW STRENGTH FLOWABLE FILL. END SECTIONS SHALL BE PLUGGED TO CONTAIN FLOWABLE FILL. FLOWABLE FILL SHALL BE A CEMENT/SAND MIX WITH A COMPRESSIVE STRENGTH OF 75-100 psi.
6. ALL UTILITY SYSTEM STRUCTURES INDICATED TO BE ABANDONED IN PLACE SHALL BE DISCONNECTED AND CAPPED.

RESTORATION NOTES:

1. RESURFACE UTILITY CUT TO MATCH EXISTING ROADWAY, SIDEWALK AND CURB AND GUTTER PER NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENT STANDARD DETAILS. RESTORE ALL DISTURBED SURFACES, PAVEMENT AND UTILITIES PER CITY OF DALLAS STANDARDS.
2. SEE DRAWING C-501 FOR PAVEMENT CUTS AND UTILITIES.
3. SEE DRAWING C-501 FOR CURB, GUTTER, AND SIDEWALK. CURB AND GUTTER SHALL MATCH EXISTING.

GENERAL SITE NOTES:

1. SEE STRUCTURAL/ELECTRICAL DRAWINGS FOR MISCELLANEOUS SITE EQUIPMENT AND PADS.

PAVEMENT JOINTING NOTES:

1. ALL CONCRETE PANELS THAT SUPPORT UTILITY STRUCTURES OR ARE IRREGULAR IN SHAPE SHALL BE REINFORCED.
2. CONTRACTOR SHALL PROVIDE THICKENED EDGE EXPANSION JOINT AROUND UTILITY STRUCTURES.

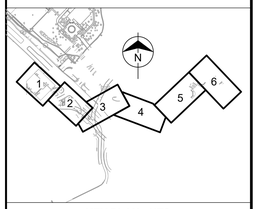
GENERAL LANDSCAPING NOTES:

1. CONTRACTOR SHALL VERIFY WITH THE CLIENT REPRESENTATIVE AND ASSOCIATED UTILITY COMPANIES AND AGENCIES THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL CONTACT THE CLIENT REPRESENTATIVE AND ALL ASSOCIATED UTILITY COMPANIES AND AGENCIES FOR THE LOCATION OF UTILITIES PRIOR TO COMMENCEMENT OF WORK.
2. CONTRACTOR SHALL EXAMINE THE FINISHED SURFACE, GRADES, TOPSOIL QUALITY, AND TOPSOIL DEPTH PRIOR TO LANDSCAPING. NO WORK SHALL BE CONDUCTED UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. CONTRACTOR SHALL VERIFY LIMITS OF WORK BEFORE STARTING WORK.
3. CONTRACTOR SHALL IMPORT AND/OR PROVIDE SALVAGED TOPSOIL MEETING THE REQUIREMENTS OF THE TEXAS DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
4. THE CONTRACTOR SHALL FURNISH AND PLACE A MINIMUM OF 4.00 INCHES OF TOPSOIL, WITH THE LOWER PORTION BLENDED INTO EXISTING SOILS.
5. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE FOR ALL LANDSCAPE AND LAWN AREAS.
6. CONTRACTOR SHALL FINE GRADE AND ROCK-HOUND ALL TURF AREAS PRIOR TO SEEDING TO PROVIDE A SMOOTH AND CONTINUAL SURFACE, FREE OF IRREGULARITIES, BUMPS AND DEPRESSIONS, AND EXTRANEOUS MATERIAL OR DEBRIS.
7. CONTRACTOR SHALL PROPERLY WATER ALL NEW LANDSCAPING AS NECESSARY TO ESTABLISH GROWTH. SEE LANDSCAPING NOTES BELOW.
8. CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGED IRRIGATION SYSTEMS.
9. SEED ALL DISTURBED AREAS THAT ARE NOT PAVED IN ACCORDANCE WITH TXDOT ITEM 164 FOR PERMANENT RURAL SEED MIX.
10. CONTRACTOR SHALL PROVIDE LANDSCAPING MAINTENANCE FOR 120 DAYS AFTER CONSTRUCTION IS COMPLETE.
11. CONTRACTOR SHALL MAINTAIN EXISTING VEGETATION AS MUCH AS PRACTICABLE.

ISSUED FOR CONSTRUCTION

STATE OF TEXAS
JEFFREY THOMAS KOCHTANEK
114703
10/12/21

no.	date	by	ckd	description
0	10/12/21	KAJ	JTK	ISSUED FOR CONSTRUCTION



KEY PLAN - NTS

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
5/4/2021	J. MCMANMON
designed	checked
K. JENSEN	J. KOCHTANEK

UTSouthwestern Medical Center

DALLAS, TEXAS

PHASE 1 - WEST CAMPUS DUCTBANK

OVERALL REMOVAL AND RESTORATION PLAN

project	contract
128993	

drawing **CD100** – rev. **0**

sheet of sheets

file 128993CD100.DWG

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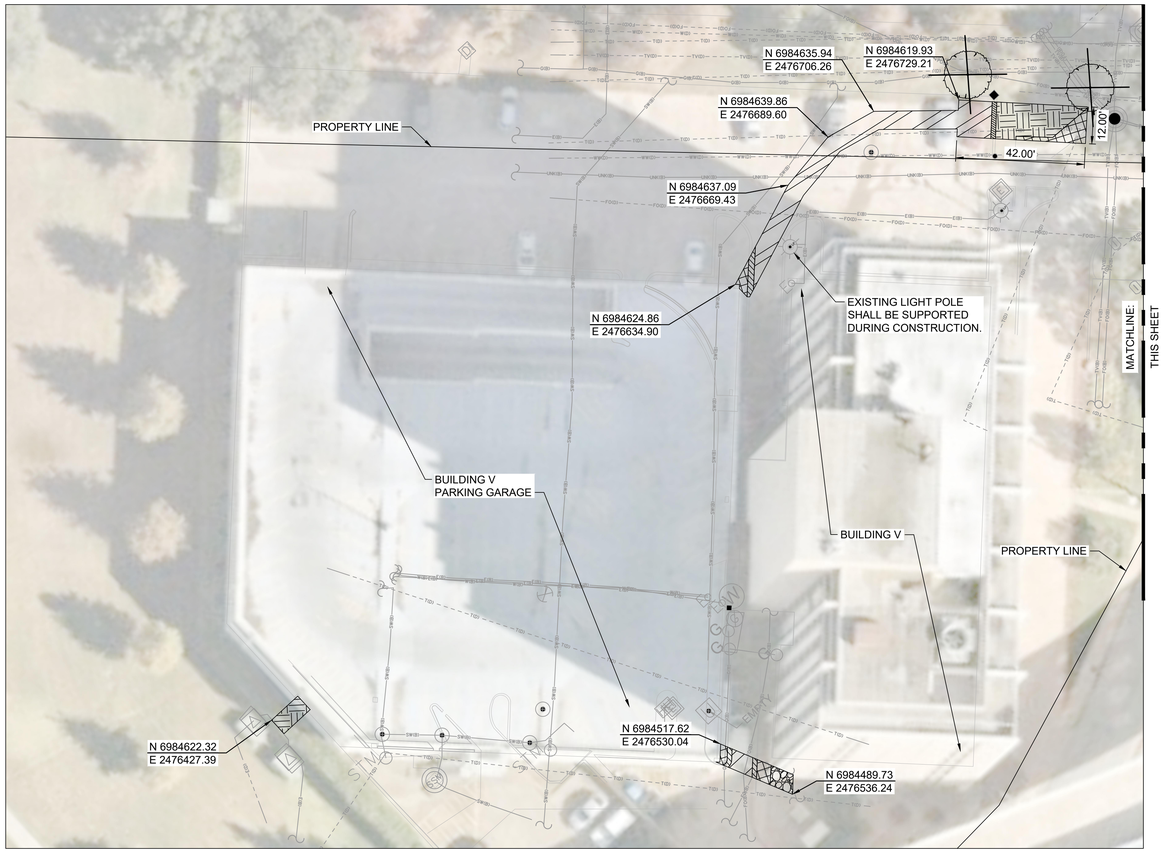

NORTH

REMOVAL AND RESTORATION PLAN - AREA 1

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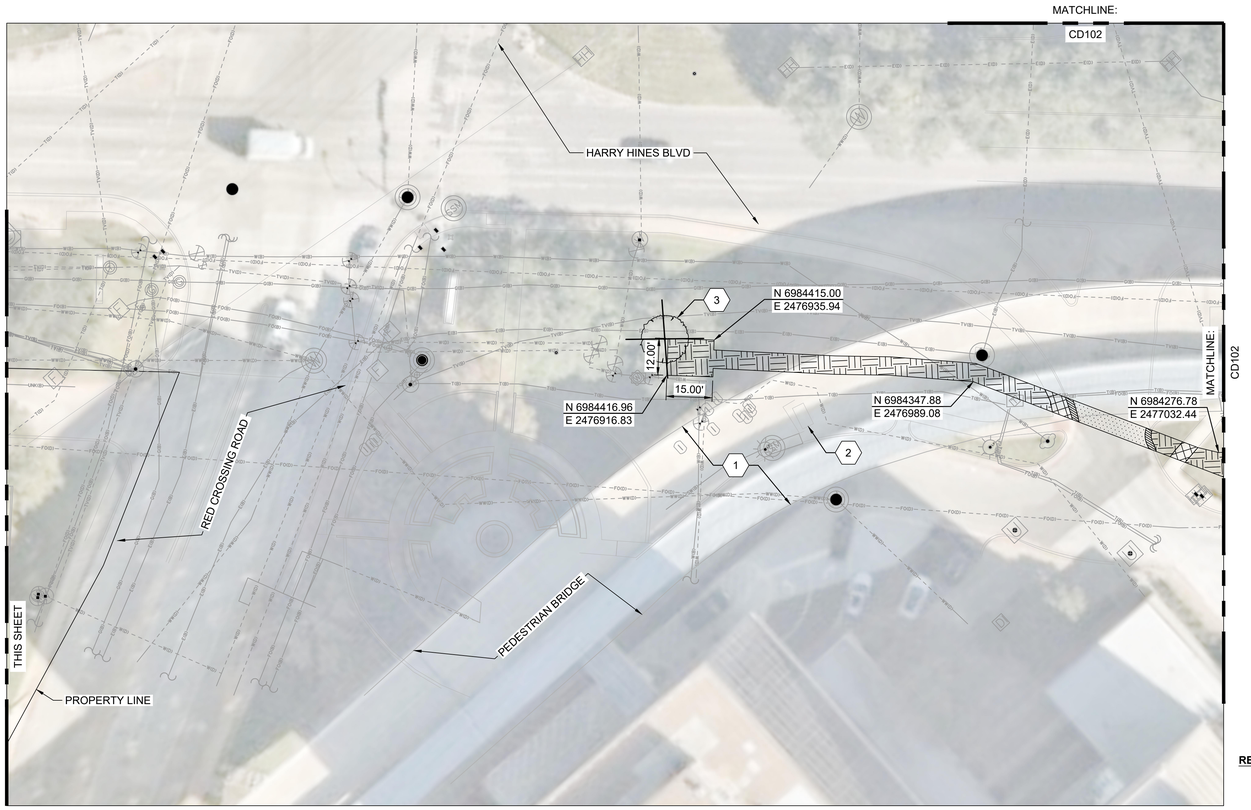
SCALE IN FEET



NORTH

REMOVAL AND RESTORATION PLAN - AREA 2

0 10' 20' 40'
SCALE IN FEET

NOTE:

1. SEE NOTES ON SHEET CD100 FOR ADDITIONAL REQUIREMENTS
2. EXISTING IRRIGATION MAY BE ENCOUNTERED DURING CONSTRUCTION. IF ENCOUNTERED, CONTRACTOR SHALL ENSURE ANY RELOCATED IRRIGATION SYSTEM AND SPRINKLER HEADS REMAIN IN WORKING CONDITION.
3. REMOVAL LIMITS ARE APPROXIMATE. TRENCHING OR SHORING MAY REQUIRE ADDITIONAL REMOVAL.
4. RESTORATION SURFACE TREATMENT SHALL MATCH EXISTING.
5. TREES SHALL REMAIN IF NOT IMPACTED BY CONSTRUCTION. ALL TREE REMOVAL SHALL BE APPROVED BY OWNER, PRIOR TO REMOVAL. TREES MAY REQUIRE REPLACEMENT, AS DIRECTED BY OWNER.

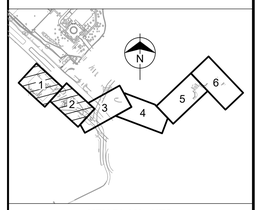
KEYED NOTES:

1. EXISTING PEDESTRIAN BRIDGE HAS AN APPROXIMATE VERTICAL CLEARANCE OF 20FT. REQUEST REFERENCE DRAWINGS FOR ADDITIONAL INFORMATION FROM CLIENT. DO NOT DISTURB.
2. EXISTING PEDESTRIAN BRIDGE PIER. REQUEST REFERENCE DRAWINGS FROM CLIENT FOR ADDITIONAL INFORMATION. DO NOT DISTURB.
3. TREE SHALL BE REPLACED TO MATCH EXISTING SPECIES, DURING RESTORATION OF THE AREA.

REMOVAL AND REPLACEMENT LEGEND:

- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- TURF (SALVAGE TOPSOIL)
- CURB & GUTTER
- CONCRETE SIDEWALK (ASSUME 4" PCC)
- LANDSCAPE ROCK (REMOVE, SALVAGE AND REPLACE TO MATCH EXISTING)
- APPROXIMATE TREE REMOVAL (SEE NOTE 5)

no.	date	by	ckd	description
0	10/12/21	KAJ	JTK	ISSUED FOR CONSTRUCTION



KEY PLAN - NTS

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
5/7/2021	J. MCMANMON
designed	checked
K. JENSEN	J. KOCHTANEK

UTSouthwestern Medical Center

DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

REMOVAL AND RESTORATION PLAN 1

project	contract
128993	

drawing **CD101** – rev. **0**

sheet of sheets

file 128993CD101.DWG

ISSUED FOR CONSTRUCTION

STATE OF TEXAS
JEFFREY THOMAS KOCHTANEK
114703
10/12/21

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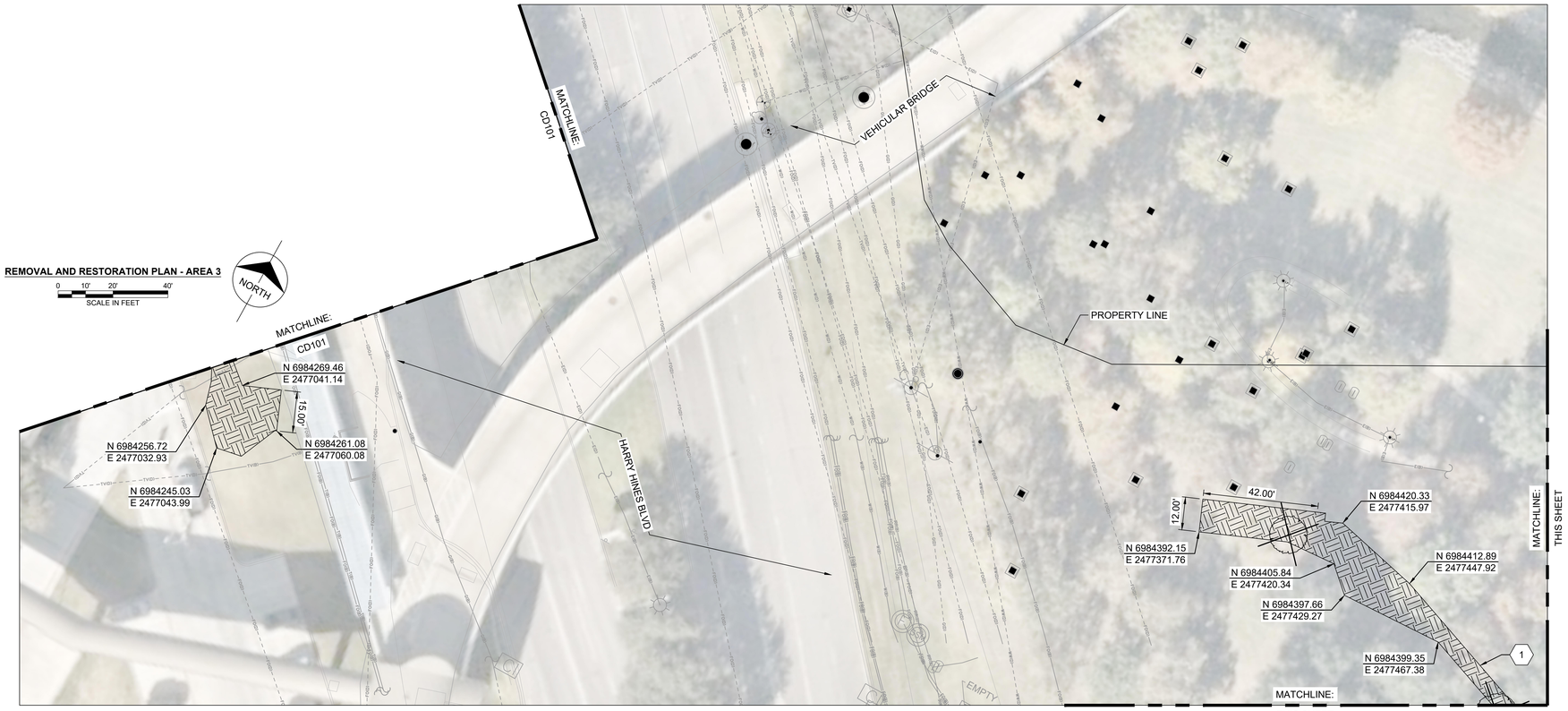


REMOVAL AND RESTORATION PLAN - AREA 3

0 10' 20' 40'
SCALE IN FEET

NORTH

NOTE:

1. SEE NOTES ON SHEET CD100 FOR ADDITIONAL REQUIREMENTS
2. EXISTING IRRIGATION MAY BE ENCOUNTERED DURING CONSTRUCTION. IF ENCOUNTERED, CONTRACTOR SHALL ENSURE ANY RELOCATED IRRIGATION SYSTEM AND SPRINKLER HEADS REMAIN IN WORKING CONDITION.
3. REMOVAL LIMITS ARE APPROXIMATE. TRENCHING OR SHORING MAY REQUIRE ADDITIONAL REMOVAL.
4. RESTORATION SURFACE TREATMENT SHALL MATCH EXISTING.

KEYED NOTES:

1. REMOVAL LIMITS AND CONSTRUCTION EXTENTS ARE INTENDED TO MINIMIZE TREE REMOVAL AND TREE IMPACT. CONTRACTOR CAN PROPOSE AN ALTERNATE ALIGNMENT TO MINIMIZE TREE DISTURBANCE, FOR ENGINEER APPROVAL. TREE REMOVAL QUANTITY SHOWN IS APPROXIMATE. ADDITIONAL TREE REMOVAL MAY BE REQUIRED. ALL TREE REMOVAL SHALL BE APPROVED BY OWNER, PRIOR TO REMOVAL. TREES MAY REQUIRE REPLACEMENT, AS DIRECTED BY OWNER.

REMOVAL AND REPLACEMENT LEGEND:

- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- TURF (SALVAGE TOPSOIL)
- CURB & GUTTER
- CONCRETE SIDEWALK (ASSUME 4" PCC)
- TREE REMOVAL

no.	date	by	ckd	description
0	10/12/21	KAJ	JTK	ISSUED FOR CONSTRUCTION

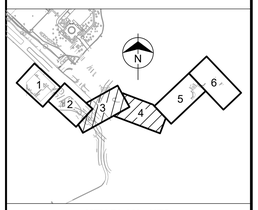
NORTH

REMOVAL AND RESTORATION PLAN - AREA 4

0 10' 20' 40'
SCALE IN FEET

ISSUED FOR CONSTRUCTION

STATE OF TEXAS
JEFFREY THOMAS KOCHTANEK
114703
10/12/21



KEY PLAN - NTS

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
12/16/2020	J. MCMANMON
designed	checked
K. JENSEN	J. KOCHTANEK

UTSouthwestern Medical Center

DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

REMOVAL AND RESTORATION PLAN 2

project	contract
128993	

drawing **CD102** – rev. **0**

sheet of sheets

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NOTE:

1. SEE NOTES ON SHEET CD100 FOR ADDITIONAL REQUIREMENTS.
2. EXISTING IRRIGATION MAY BE ENCOUNTERED DURING CONSTRUCTION. IF ENCOUNTERED, CONTRACTOR SHALL ENSURE ANY RELOCATED IRRIGATION SYSTEM AND SPRINKLER HEADS REMAIN IN WORKING CONDITION.
3. REMOVAL LIMITS ARE APPROXIMATE. TRENCHING OR SHORING MAY REQUIRE ADDITIONAL REMOVAL.
4. RESTORATION SURFACE TREATMENT SHALL MATCH EXISTING.

KEYED NOTES:

1. SOILS MAY BE CONTAMINATED. COORDINATE WITH UNIVERSITY OF TEXAS ENVIRONMENTALS ON SOIL HANDLING REQUIREMENTS. SEE FRONT END SPECIFICATIONS FOR CONTAMINATED SOIL HANDLING REQUIREMENTS, IF ENCOUNTERED.
2. REMOVAL LIMITS AND CONSTRUCTION EXTENTS ARE INTENDED TO MINIMIZE TREE REMOVAL AND TREE IMPACT. CONTRACTOR CAN PROPOSE AN ALTERNATE ALIGNMENT TO MINIMIZE TREE DISTURBANCE, FOR ENGINEER APPROVAL. TREE REMOVAL QUANTITY SHOWN IS APPROXIMATE. ADDITIONAL TREE REMOVAL MAY BE REQUIRED. ALL TREE REMOVAL SHALL BE APPROVED BY OWNER PRIOR TO REMOVAL. TREES MAY REQUIRE REPLACEMENT AS DIRECTED BY OWNER.
3. CONSTRUCTION WITHIN REDFIELD STREET SHALL BE PHASED TO ALLOW UNINTERRUPTED EMERGENCY VEHICLE ACCESS.

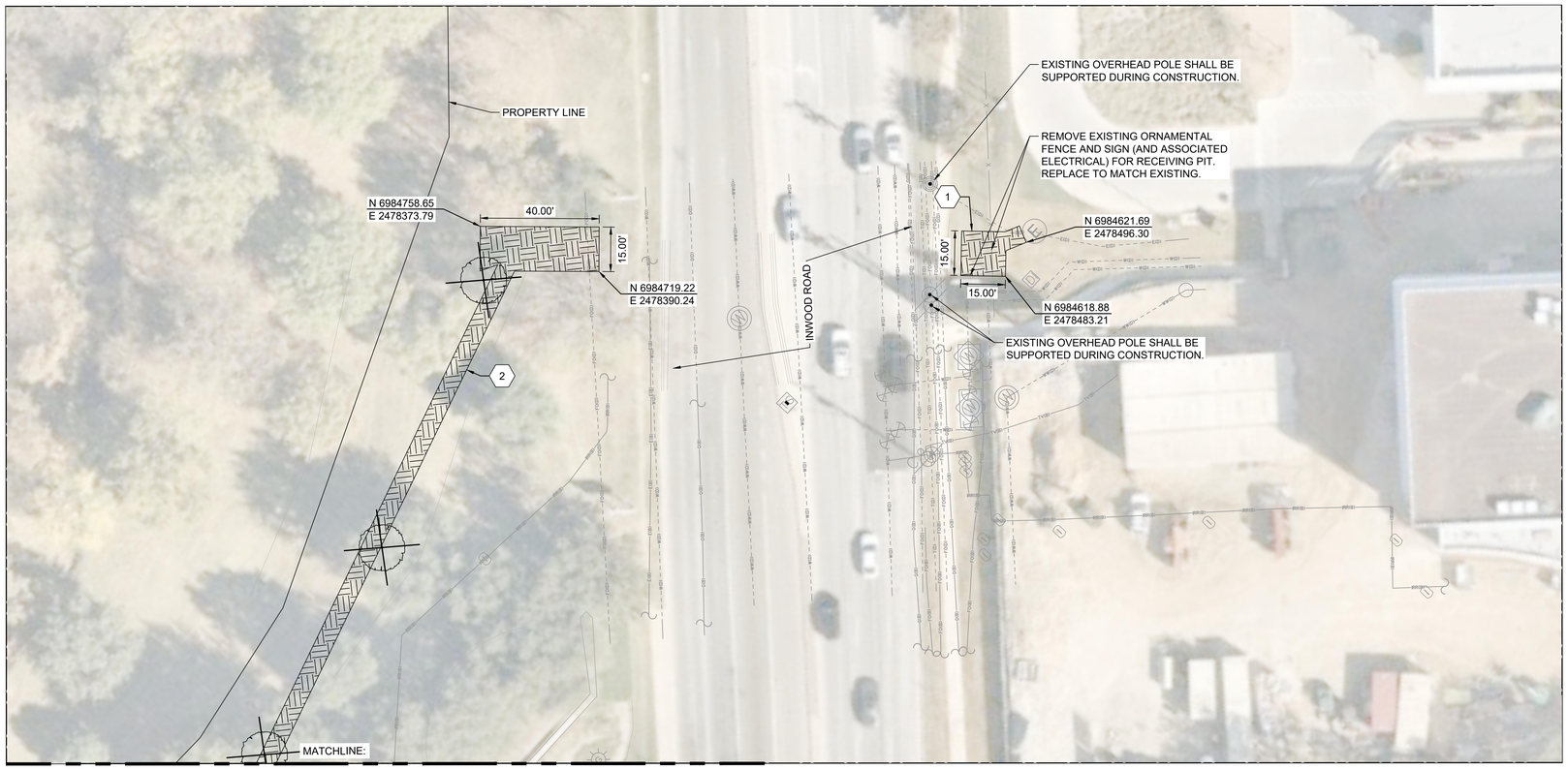
REMOVAL AND REPLACEMENT LEGEND:

- CONCRETE PAVEMENT
- ASPHALT PAVEMENT
- TURF (SALVAGE TOPSOIL)
- CURB & GUTTER
- CONCRETE SIDEWALK
- TREE REMOVAL

NORTH

REMOVAL AND RESTORATION PLAN - AREA 5

0 10' 20' 40'
SCALE IN FEET



NORTH

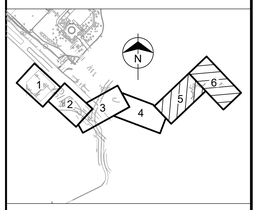
REMOVAL AND RESTORATION PLAN - AREA 6

0 10' 20' 40'
SCALE IN FEET

ISSUED FOR CONSTRUCTION

STATE OF TEXAS
JEFFREY THOMAS KOCHTANEK
114703
10/12/21

no.	date	by	ckd	description
0	10/12/21	KAJ	JTK	ISSUED FOR CONSTRUCTION



KEY PLAN - NTS

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
12/16/2020	J. MCMANMON
designed	checked
K. JENSEN	J. KOCHTANEK

UTSouthwestern Medical Center
DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

REMOVAL AND RESTORATION PLAN 3

project	contract
128993	

drawing **CD103** — rev. **0**

sheet of sheets

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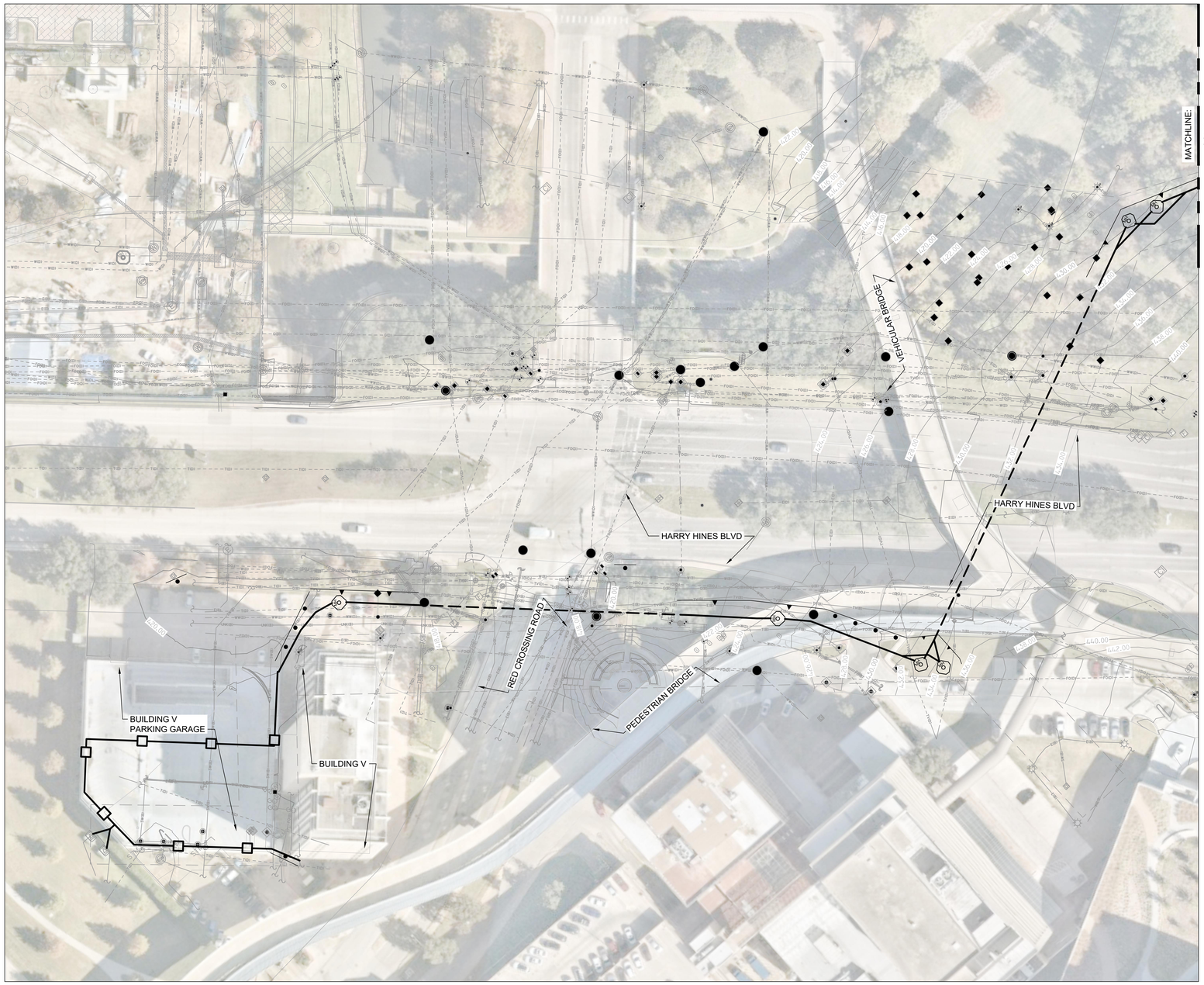


EROSION AND SEDIMENT CONTROL NOTES

1. CONSTRUCTION ACTIVITY POLLUTION PREVENTION IS REQUIRED FOR THIS PROJECT. PREVENTION OF POLLUTION RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE ACCOMPLISHED BY CONTROLLING SOIL EROSION, WATERWAY SEDIMENTATION, AND AIRBORNE DUST GENERATION. CONTRACTOR SHALL ENSURE THAT NO SEDIMENT RESULTING FROM CONSTRUCTION ACTIVITIES INFRINGES ONTO ADJACENT PROPERTIES.

2. SOIL EROSION AND SEDIMENT CONTROLS ARE MEASURES USED TO REDUCE THE AMOUNT OF SOIL PARTICLES THAT ARE CARRIED OFF AN AREA AND DEPOSITED INTO A DRAINAGE COLLECTION SYSTEM OR INTO A BODY OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EROSION AND SEDIMENTATION ARE CONTROLLED TO THE EXTENT PRACTICABLE. ALL APPLICABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES. PRIOR TO INITIATING CONSTRUCTION IN AN AREA, ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE. UPON PROJECT COMPLETION ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.

3. TEMPORARY EROSION CONTROL SHALL BE THE CONTRACTOR'S RESPONSIBILITY, WHO SHALL UTILIZE APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS). THOSE BMPS SHALL CONSIST OF SILT FENCE, GRAVEL BAGS, FILTER TUBES OR OTHER APPROVED MEANS TO CONTROL EROSION AS NEEDED.

4. CONTRACTOR SHALL PLACE SILT FENCE DOWN-SLOPE OF DISTURBED AREAS WHERE SHEET EROSION WOULD OCCUR. SILT FENCE SHALL BE CLEANED AND REPAIRED WHEN SEDIMENT BUILDUP REACHES ONE-THIRD OF SILT FENCE HEIGHT. AFTER SIGNIFICANT RUNOFF EVENTS, THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL STRUCTURES FOR SILT BUILD-UP THAT INTERFERES WITH THE PERFORMANCE OF THE EROSION CONTROL STRUCTURE AND REPAIR OR REPLACE THOSE STRUCTURES, AS NECESSARY.

5. ALL STORM DRAIN INLETS SHALL BE PROTECTED BY APPROPRIATE BMPS DURING CONSTRUCTION, UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGE TO THE INLETS HAVE BEEN STABILIZED.

6. ALL EXISTING DRAIN INLETS SHALL HAVE SILT FENCE PROTECTION, FILTREXX SILT SOXX, INLET SOXX, OR APPROVED EQUAL INSTALLED. EROSION PROTECTION MAY BE REMOVED WHEN VEGETATION IS ESTABLISHED OR PAVEMENT IS REPLACED.

LEGEND

- SILT FENCE (1 / C-502)
- GRAVEL BAG OR APPROVED FILTER TUBE (2 / C-502)
- TRENCHLESS DUCTBANK
- DIRECT BURY DUCTBANK

NORTH

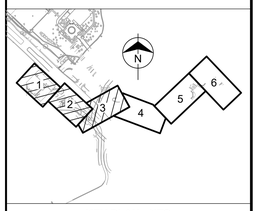
SEDIMENT AND EROSION CONTROL PLAN 1

0 20' 40' 80'
SCALE IN FEET

ISSUED FOR CONSTRUCTION

STATE OF TEXAS
JEFFREY THOMAS KOCHTANEK
114703
10/12/21

no.	date	by	ckd	description
0	10/12/21	KAJ	JTK	ISSUED FOR CONSTRUCTION



KEY PLAN - NTS

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
5/7/2021	J. MCMANMON
designed	checked
K. JENSEN	J. KOCHTANEK

UTSouthwestern Medical Center
DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

SEDIMENT AND EROSION CONTROL PLAN 1

project	contract
128993	

drawing **CG101** – rev. **0**

sheet of sheets

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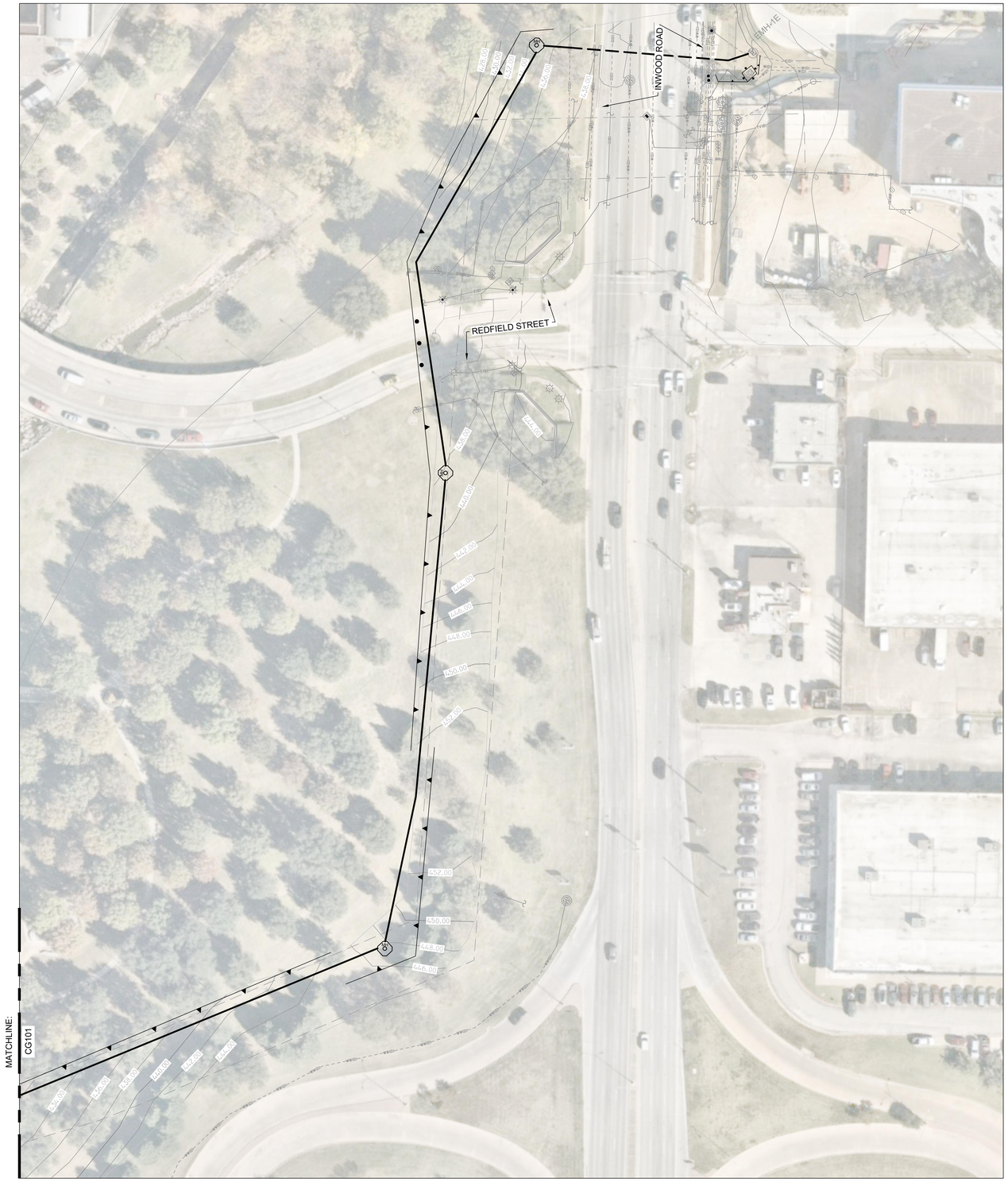


EROSION AND SEDIMENT CONTROL NOTES

1. CONSTRUCTION ACTIVITY POLLUTION PREVENTION IS REQUIRED FOR THIS PROJECT. PREVENTION OF POLLUTION RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE ACCOMPLISHED BY CONTROLLING SOIL EROSION, WATERWAY SEDIMENTATION, AND AIRBORNE DUST GENERATION. CONTRACTOR SHALL ENSURE THAT NO SEDIMENT RESULTING FROM CONSTRUCTION ACTIVITIES INFRINGES ONTO ADJACENT PROPERTIES.

2. SOIL EROSION AND SEDIMENT CONTROLS ARE MEASURES USED TO REDUCE THE AMOUNT OF SOIL PARTICLES THAT ARE CARRIED OFF AN AREA AND DEPOSITED INTO A DRAINAGE COLLECTION SYSTEM OR INTO A BODY OF WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT EROSION AND SEDIMENTATION ARE CONTROLLED TO THE EXTENT PRACTICABLE. ALL APPLICABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED AND MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES. PRIOR TO INITIATING CONSTRUCTION IN AN AREA, ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE. UPON PROJECT COMPLETION ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED.

3. TEMPORARY EROSION CONTROL SHALL BE THE CONTRACTOR'S RESPONSIBILITY, WHO SHALL UTILIZE APPROPRIATE BEST MANAGEMENT PRACTICES (BMPS). THOSE BMPS SHALL CONSIST OF SILT FENCE, GRAVEL BAGS, FILTER TUBES OR OTHER APPROVED MEANS TO CONTROL EROSION AS NEEDED.

4. CONTRACTOR SHALL PLACE SILT FENCE DOWN-SLOPE OF DISTURBED AREAS WHERE SHEET EROSION WOULD OCCUR. SILT FENCE SHALL BE CLEANED AND REPAIRED WHEN SEDIMENT BUILDUP REACHES ONE-THIRD OF SILT FENCE HEIGHT. AFTER SIGNIFICANT RUNOFF EVENTS, THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL STRUCTURES FOR SILT BUILD-UP THAT INTERFERES WITH THE PERFORMANCE OF THE EROSION CONTROL STRUCTURE AND REPAIR OR REPLACE THOSE STRUCTURES, AS NECESSARY.

5. ALL STORM DRAIN INLETS SHALL BE PROTECTED BY APPROPRIATE BMPS DURING CONSTRUCTION, UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGE TO THE INLETS HAVE BEEN STABILIZED.

6. ALL EXISTING DRAIN INLETS SHALL HAVE SILT FENCE PROTECTION, FILTREXX SILT SOXX, INLET SOXX, OR APPROVED EQUAL INSTALLED. EROSION PROTECTION MAY BE REMOVED WHEN VEGETATION IS ESTABLISHED OR PAVEMENT IS REPLACED.

LEGEND

- SILT FENCE (1 / C-502)
- GRAVEL BAG OR APPROVED FILTER TUBE (2 / C-502)
- TRENCHLESS DUCTBANK
- DIRECT BURY DUCTBANK

NORTH

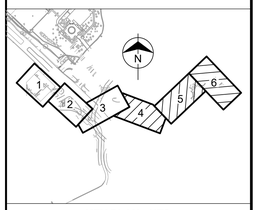
SEDIMENT AND EROSION CONTROL PLAN 2

0 20' 40' 80'
SCALE IN FEET

ISSUED FOR CONSTRUCTION

STATE OF TEXAS
JEFFREY THOMAS KOCHTANEK
114703
10/12/21

no.	date	by	ckd	description
0	10/12/21	KAJ	JTK	ISSUED FOR CONSTRUCTION



KEY PLAN - NTS

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
12/16/2020	J. MCMANMON
designed	checked
K. JENSEN	J. KOCHTANEK

UTSouthwestern Medical Center
DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

SEDIMENT AND EROSION CONTROL PLAN 2

project	contract
128993	

drawing **CG102** — rev. **0**

sheet of sheets

file 128993CG101.DWG

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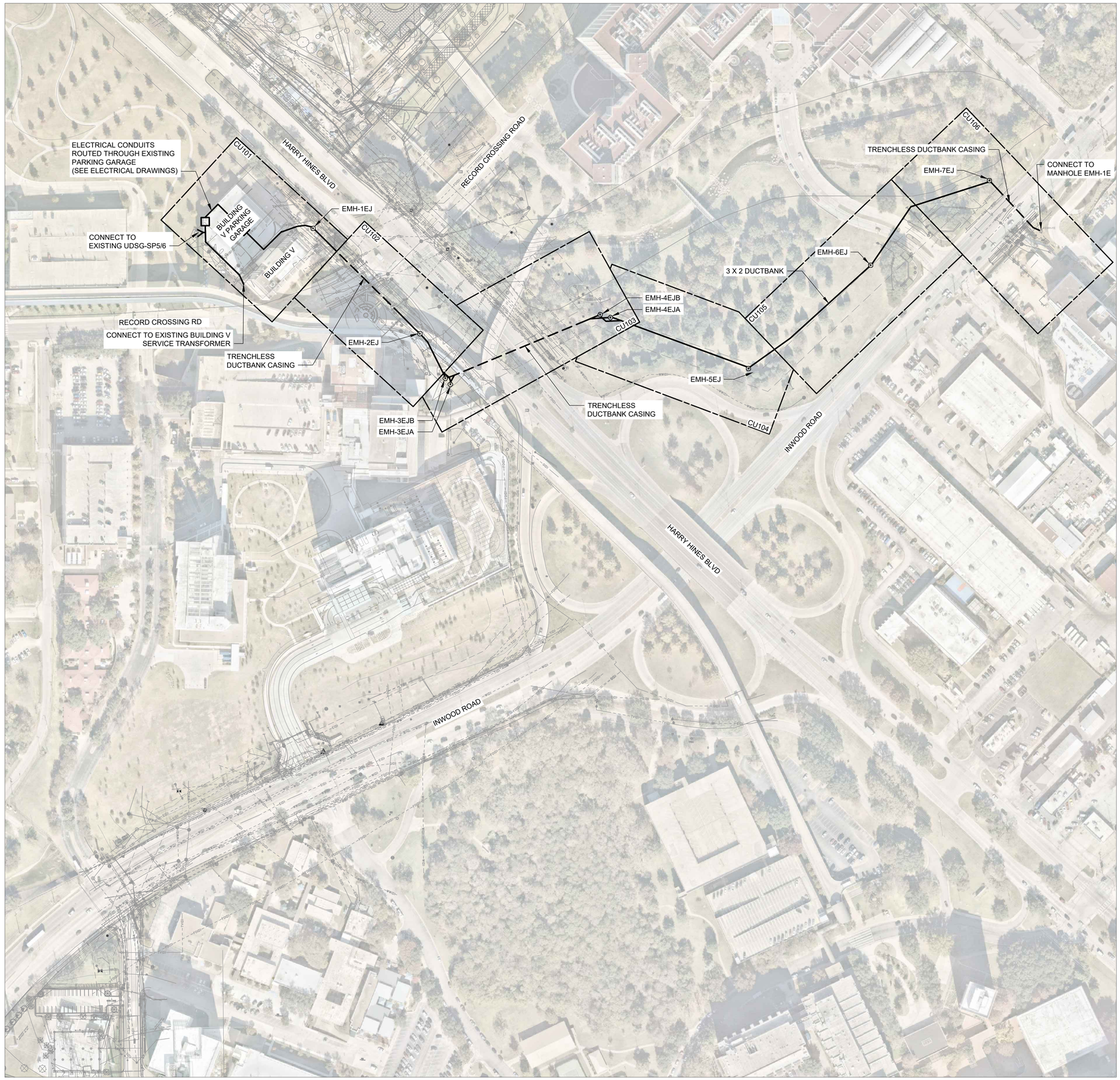


GENERAL UTILITY NOTES:

1. ALL PIPE SIZES ARE IN INCHES UNLESS INDICATED OTHERWISE.
2. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONNECTIONS TO EXISTING UTILITIES WITH THE INFORMATION PROVIDED ON ELECTRICAL DRAWINGS. EXISTING UTILITIES SHOWN ARE APPROXIMATE.
3. CONTRACTOR SHALL CONTACT THE CLIENT REPRESENTATIVE AND ALL ASSOCIATED UTILITY COMPANIES AND AGENCIES TO IDENTIFY THE LOCATION OF UTILITIES PRIOR TO COMMENCEMENT OF WORK. EXISTING UTILITIES SHOWN ARE APPROXIMATE AND NOT COMPLETE.
4. CONTRACTOR SHALL COORDINATE ALL REQUIRED UTILITY SHUTDOWNS FOR UTILITY CONNECTIONS WITH THE CLIENT REPRESENTATIVE.
5. THE MINIMUM DEPTH OF COVER FOR UTILITIES SHALL BE AS FOLLOWS UNLESS INDICATED OTHERWISE:
   a. ELECTRICAL: 24 INCHES
   b. ALL OTHER UTILITIES: 36 INCHES
6. ALL UNDERGROUND UTILITIES ARE SUBJECT TO ACCEPTANCE TESTING AND INSPECTION METHODS.
7. ANY CHANGES TO PROPOSED UTILITY DESIGN SHALL BE APPROVED BY ENGINEER AND THE CLIENT REPRESENTATIVE.
8. FIELD LOCATE EXISTING UTILITIES. ADJUST VERTICAL ELECTRICAL ALIGNMENT TO ALLOW A MINIMUM OF 1 FOOT CLEAR SEPARATION FROM EXISTING UTILITIES.
9. SEE ELECTRICAL DRAWINGS FOR TYPICAL DUCTBANK TRENCH DETAILS.
10. ALL METALLIC BURIED ITEMS SHALL BE CATHODICALLY PROTECTED WITH POLYWRAP.
11. SEE EXISTING CONDITIONS NOTES ON V-100.

UTILITY STRUCTURE NOTES:

1. ALL UTILITY STRUCTURES ARE TO TO BE H-20 RATED UNLESS INDICATED OTHERWISE.
2. IF MANHOLE IS LOCATED IN PAVEMENT AREAS, RIM ELEVATION SHALL BE FLUSH WITH FINAL GRADE.
3. COVERS AND CASTINGS OF MANHOLES AND STRUCTURES SHALL BE STAMPED PER APPROPRIATE UTILITY TYPE OR PER THE LOCAL STANDARDS, AND SHALL BE STAMPED PER THE ORIGIN OF MANUFACTURE.

LEGEND:

- DIRECT BURY DUCT BANK (SEE E-502)
- TRENCHLESS DUCT BANK
- ABOVE GRADE DUCT BANK (SEE E-400)
- MH — ELECTRICAL MANHOLE (SEE E-503)

OVERALL ELECTRICAL DUCTBANK PLAN

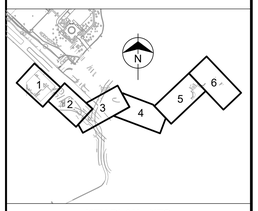
0 100' 200'
SCALE IN FEET

NORTH

ISSUED FOR CONSTRUCTION

STATE OF TEXAS
JEFFREY THOMAS KOCHTANEK
114703
10/12/21

no.	date	by	ckd	description
0	10/12/21	KAJ	JTK	ISSUED FOR CONSTRUCTION



KEY PLAN - NTS

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
12/16/2020	J. MCMANMON
designed	checked
K. JENSEN	J. KOCHTANEK

UTSouthwestern Medical Center

DALLAS, TEXAS

PHASE 1 - WEST CAMPUS DUCTBANK

OVERALL ELECTRICAL DUCTBANK PLAN

project 128993 | contract

drawing **CU100** – rev. **0**

sheet of sheets

file 128993CU100.DWG

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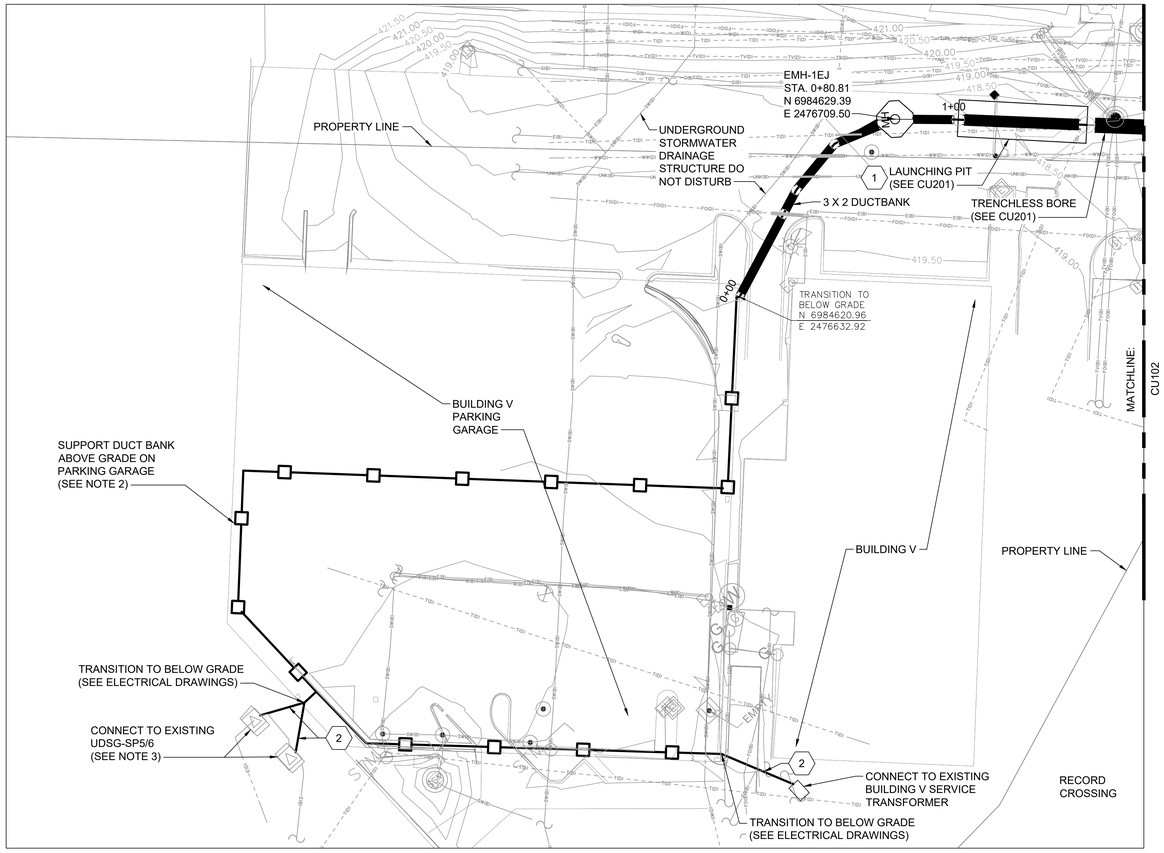


NORTH

ELECTRICAL DUCTBANK PLAN 1

0 10' 20' 40'
SCALE IN FEET

NOTE:

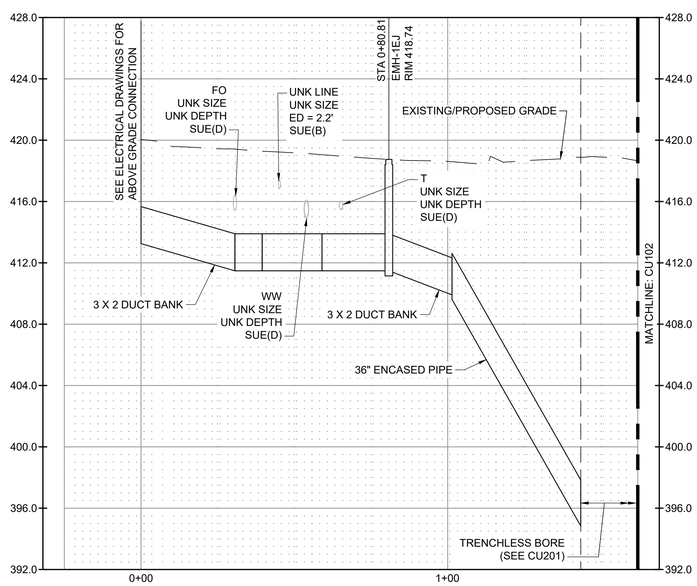
1. SEE GENERAL UTILITY NOTES ON SHEET CU100.
2. SEE ELECTRICAL DRAWINGS FOR DUCT BANK ROUTING AND ABOVE GRADE DETAILS THROUGH THE PARKING GARAGE.
3. SEE ELECTRICAL DRAWINGS FOR CONNECTION TO EXISTING UDSG-SP5/6
4. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION.
5. PROFILE IS SHOWN AT PROPOSED DUCTBANK CENTERLINE.
6. SEE ELECTRICAL DRAWINGS FOR DUCTBANK CROSS SECTION AND MANHOLE DETAILS.
7. SEE CD100-CD103 FOR ADDITIONAL NOTES.

KEYED NOTES:

1. FIELD VERIFY EXISTING UTILITIES WITHIN LAUNCHING AND RECEIVING PITS, TO CONFIRM EXISTS. CONTRACTOR SHALL RELOCATE UTILITIES AS NEEDED. RELOCATION SHALL BE COORDINATED WITH UTILITY OWNER AND CONSTRUCTED BASED ON UTILITY OWNER REQUIREMENTS.
2. EXISTING SURFACE REMOVAL REQUIRED FOR BELOW GRADE CONDUIT INSTALLATION SHALL BE RESTORED TO MATCH EXISTING CONDITIONS, INCLUDING THICKNESS AND SECTION. RESTORATION MAY INCLUDE, BUT IS NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB AND GUTTER, AND SEEDING.

LEGEND:

- TV(B) — EXISTING CABLE TV
- G(B) — EXISTING GAS
- FO(B) — EXISTING FIBER OPTIC
- T(B) — EXISTING TELEPHONE
- E(B) — EXISTING ELECTRIC
- UNK(B) — EXISTING UNKNOWN
- WW(B) — EXISTING WASTE WATER
- SW(B) — EXISTING STORM
- W(B) — EXISTING WATER
- DIRECT BURY DUCTBANK (SEE E-502)
- TRENCHLESS DUCTBANK
- ABOVE GRADE PIPING (SEE E-400)
- MH — ELECTRICAL MANHOLE (SEE E-503)



ELECTRICAL DUCTBANK PROFILE 1

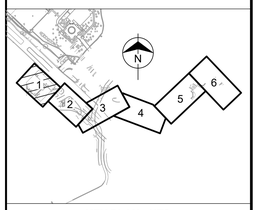
VERTICAL SCALE: 0 4' 8' SCALE IN FEET

HORIZONTAL SCALE: 0 10' 20' 40' SCALE IN FEET

ISSUED FOR CONSTRUCTION

STATE OF TEXAS — JEFFREY THOMAS KOCHTANEK — 114703 — 10/12/21

no.	date	by	ckd	description
0	10/12/21	KAJ	JTK	ISSUED FOR CONSTRUCTION



KEY PLAN - NTS

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
12/16/2020	J. MCMANMON
designed	checked
K. JENSEN	J. KOCHTANEK

UTSouthwestern Medical Center

DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

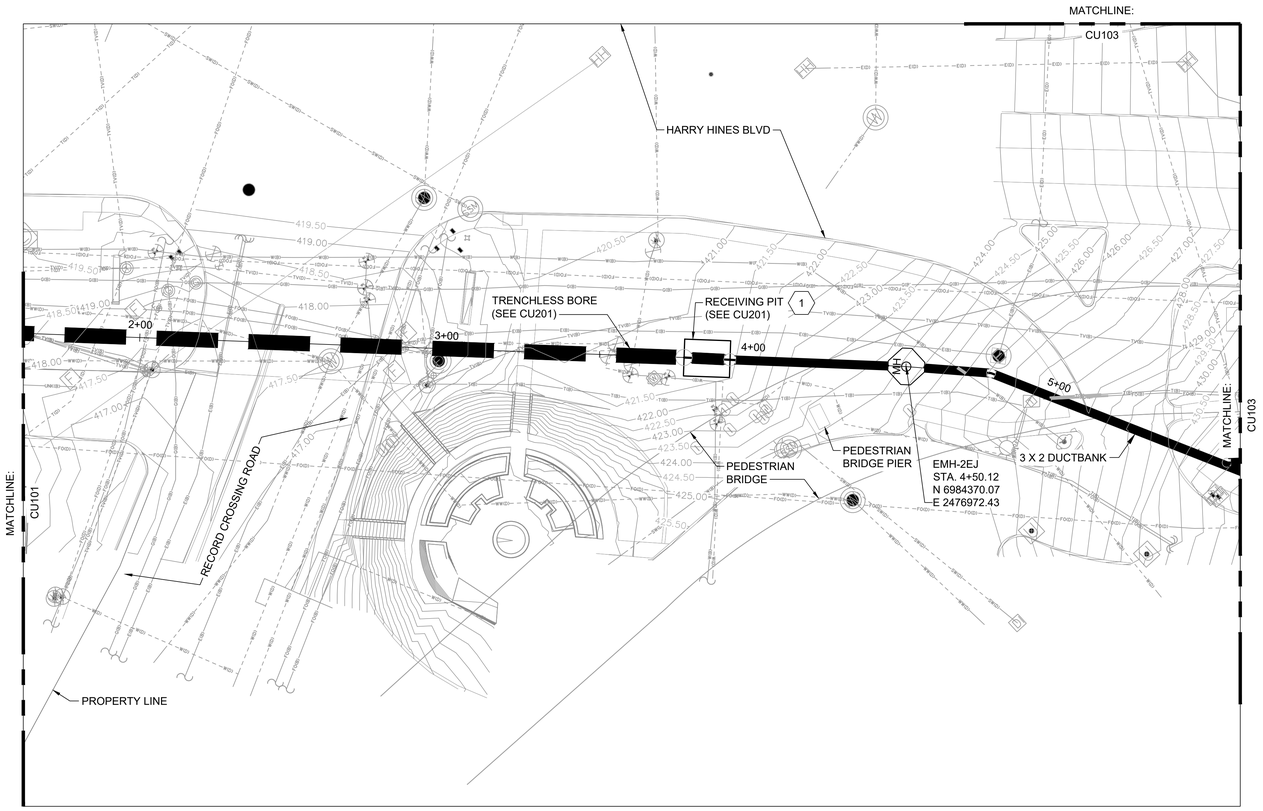
ELECTRICAL DUCTBANK PLAN AND PROFILE 1

project	contract
128993	

drawing **CU101** — rev. **0**

sheet of sheets

file 128993CU101.DWG



ELECTRICAL DUCTBANK PLAN 2

0 10' 20' 40'
SCALE IN FEET

NOTE:

1. SEE GENERAL UTILITY NOTES ON SHEET CU100.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION.
3. PROFILE IS SHOWN AT PROPOSED DUCTBANK CENTERLINE.
4. SEE ELECTRICAL DRAWINGS FOR DUCTBANK CROSS SECTION AND MANHOLE DETAILS.

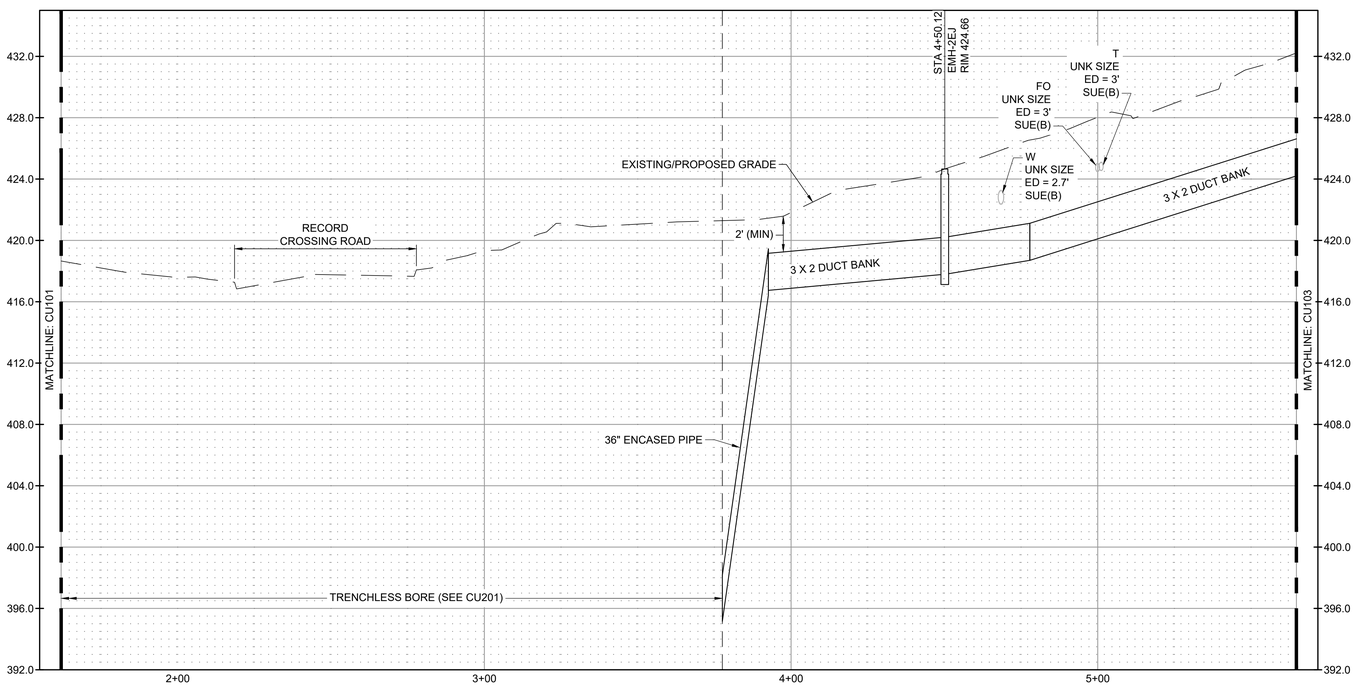
KEYED NOTES:

1. FIELD VERIFY EXISTING UTILITIES WITHIN LAUNCHING AND RECEIVING PITS, TO CONFIRM EXISTS. CONTRACTOR SHALL RELOCATE UTILITIES AS NEEDED. RELOCATION SHALL BE COORDINATED WITH UTILITY OWNER AND CONSTRUCTED BASED ON UTILITY OWNER REQUIREMENTS.

LEGEND:

- TV(B) — EXISTING CABLE TV
- G(B) — EXISTING GAS
- FO(B) — EXISTING FIBER OPTIC
- T(B) — EXISTING TELEPHONE
- E(B) — EXISTING ELECTRIC
- UNK(B) — EXISTING UNKNOWN
- WW(B) — EXISTING WASTE WATER
- SW(B) — EXISTING STORM
- W(B) — EXISTING WATER
- DIRECT BURY DUCTBANK (SEE E-502)
- TRENCHLESS DUCTBANK
- MH — ELECTRICAL MANHOLE (SEE E-503)

no.	date	by	ckd	description
0	10/12/21	KAJ	JTK	ISSUED FOR CONSTRUCTION



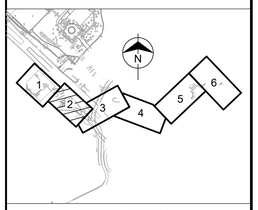
ELECTRICAL DUCTBANK PROFILE 2

VERTICAL SCALE: 0 4' 8' SCALE IN FEET

HORIZONTAL SCALE: 0 10' 20' 40' SCALE IN FEET

ISSUED FOR CONSTRUCTION

STATE OF TEXAS
JEFFREY THOMAS KOCHTANEK
114703
10/12/21



KEY PLAN - NTS

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
12/16/2020	J. MCMANMON
designed	checked
K. JENSEN	J. KOCHTANEK

UTSouthwestern Medical Center
DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

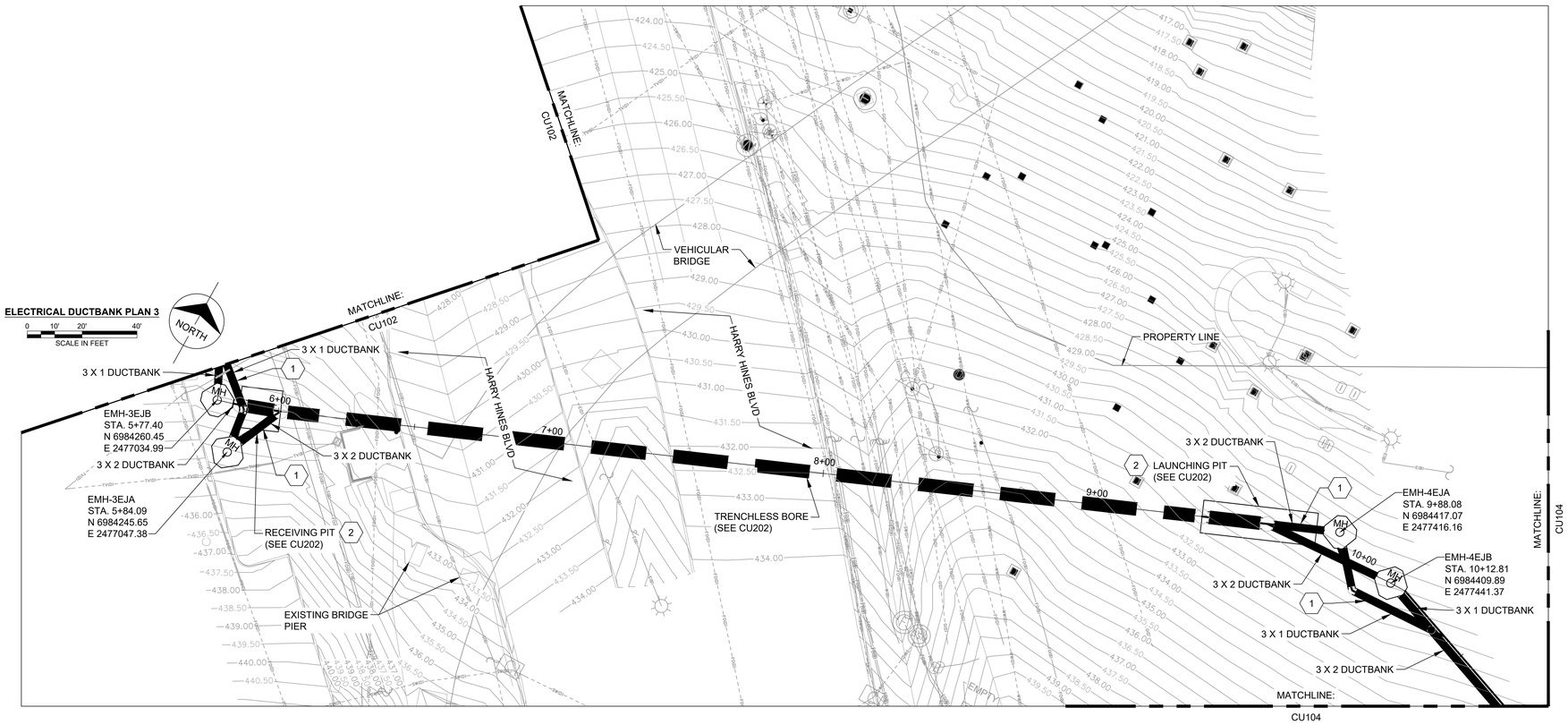
ELECTRICAL DUCTBANK PLAN AND PROFILE 2

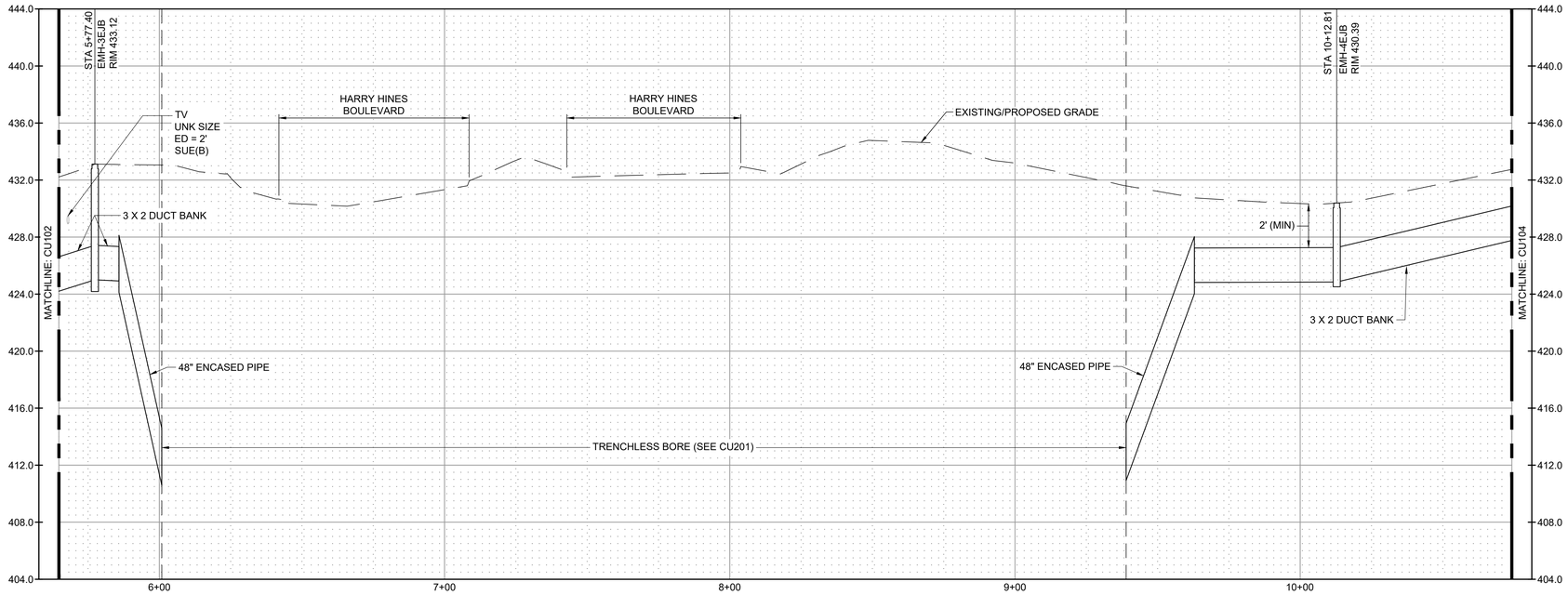
project 128993 | contract

drawing **CU102** — rev. **0**

sheet of sheets

file 128993CU101.DWG





NOTE:

1. SEE GENERAL UTILITY NOTES ON SHEET CU100.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION.
3. PROFILE IS SHOWN AT PROPOSED DUCTBANK CENTERLINE.
4. SEE ELECTRICAL DRAWINGS FOR DUCTBANK CROSS SECTION AND MANHOLE DETAILS.

KEYED NOTES:

1. DUCTBANK BRANCH IS NOT SHOWN IN PROFILE. DUCTBANK SPLITS AND SHALL BE CONSTRUCTED WITH A MINIMUM 2 FEET OF COVER TO AND FROM MANHOLES.
2. FIELD VERIFY EXISTING UTILITIES WITHIN LAUNCHING AND RECEIVING PITS, TO CONFIRM EXISTS. CONTRACTOR SHALL RELOCATE UTILITIES AS NEEDED. RELOCATION SHALL BE COORDINATED WITH UTILITY OWNER AND CONSTRUCTED BASED ON UTILITY OWNER REQUIREMENTS.

LEGEND:

- EXISTING CABLE TV
- EXISTING GAS
- EXISTING FIBER OPTIC
- EXISTING TELEPHONE
- EXISTING ELECTRIC
- EXISTING UNKNOWN
- EXISTING WASTE WATER
- EXISTING STORM
- EXISTING WATER
- DIRECT BURY DUCTBANK (SEE E-502)
- TRENCHLESS DUCTBANK
- ELECTRICAL MANHOLE (SEE E-503)

ELECTRICAL DUCTBANK PROFILE 3

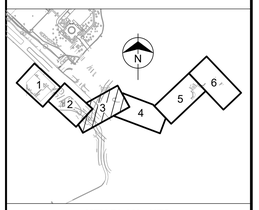
VERTICAL SCALE: 0 4' 8' SCALE IN FEET

HORIZONTAL SCALE: 0 10' 20' 40' SCALE IN FEET

ISSUED FOR CONSTRUCTION

STATE OF TEXAS — JEFFREY THOMAS KOCHTANEK — 114703 — 10/12/21

no.	date	by	ckd	description
0	10/12/21	KAJ	JTK	ISSUED FOR CONSTRUCTION



KEY PLAN - NTS

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
12/16/2020	J. MCMANMON
designed	checked
K. JENSEN	J. KOCHTANEK

UTSouthwestern Medical Center
DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

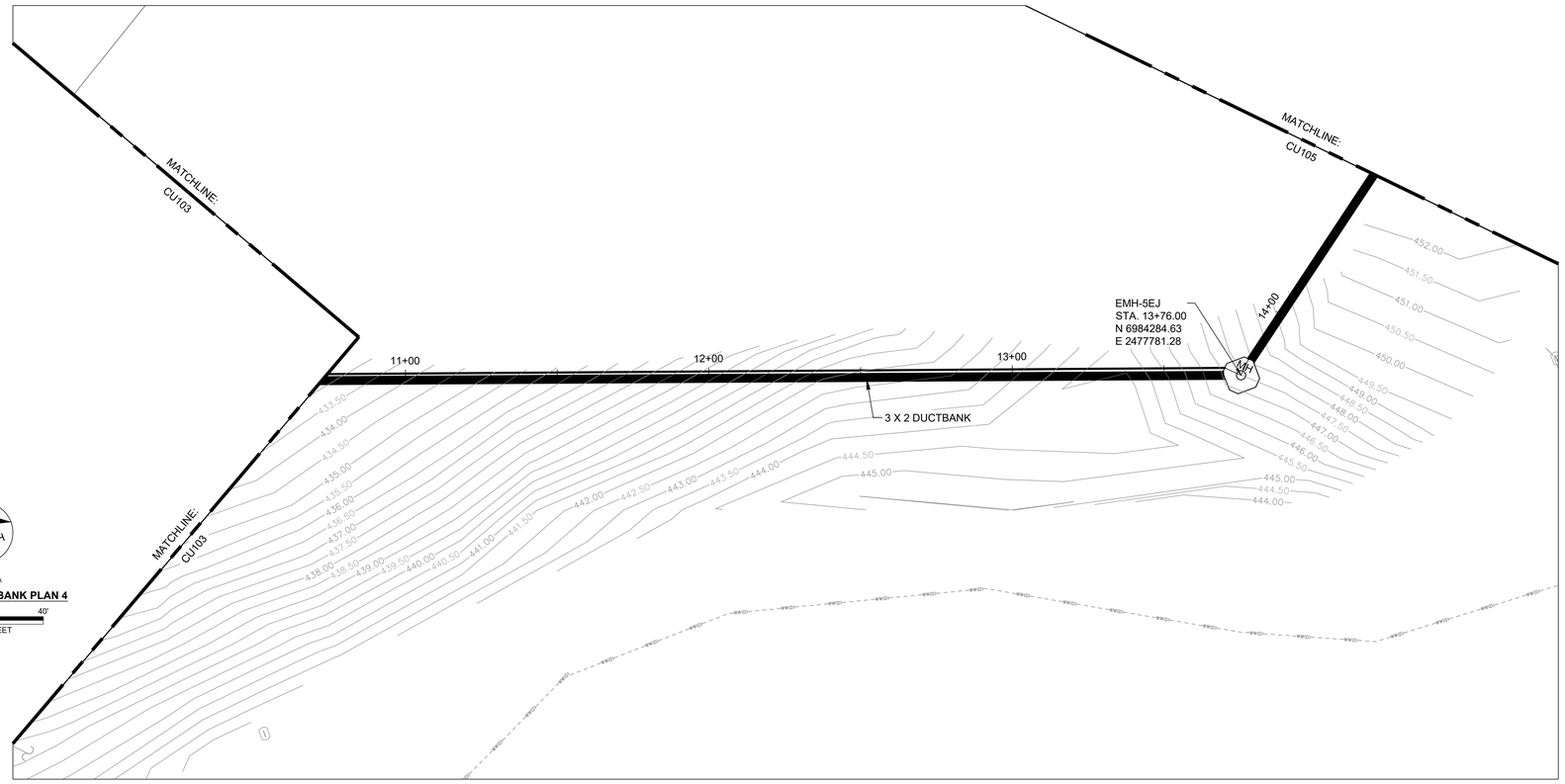
ELECTRICAL DUCTBANK PLAN AND PROFILE 3

project	contract
128993	

drawing **CU103** – rev. **0**

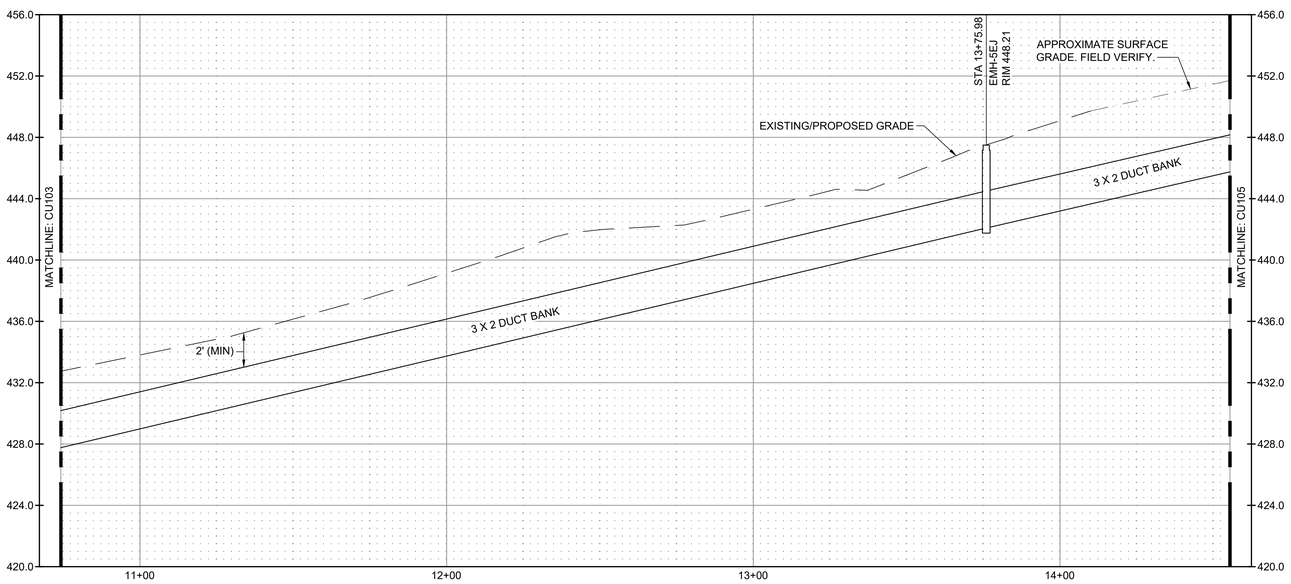
sheet of sheets

file 128993CU101.DWG



ELECTRICAL DUCTBANK PLAN 4

0 10' 20' 40'
SCALE IN FEET



ELECTRICAL DUCTBANK PROFILE 4

VERTICAL SCALE: 0 4' 8' SCALE IN FEET

HORIZONTAL SCALE: 0 10' 20' 40' SCALE IN FEET

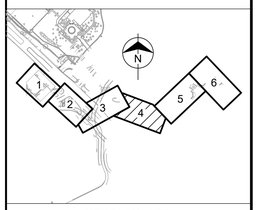
NOTE:

1. SEE GENERAL UTILITY NOTES ON SHEET CU100.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION.
3. PROFILE IS SHOWN AT PROPOSED DUCTBANK CENTERLINE.
4. SEE ELECTRICAL DRAWINGS FOR DUCTBANK CROSS SECTION AND MANHOLE DETAILS.

LEGEND:

- TV(B) — EXISTING CABLE TV
- G(B) — EXISTING GAS
- FO(B) — EXISTING FIBER OPTIC
- T(B) — EXISTING TELEPHONE
- E(B) — EXISTING ELECTRIC
- UNK(B) — EXISTING UNKNOWN
- WW(B) — EXISTING WASTE WATER
- SW(B) — EXISTING STORM
- W(B) — EXISTING WATER
- DIRECT BURY DUCTBANK (SEE E-502)
- TRENCHLESS DUCTBANK
- MH — ELECTRICAL MANHOLE (SEE E-503)

no.	date	by	ckd	description
0	10/12/21	KAJ	JTK	ISSUED FOR CONSTRUCTION



KEY PLAN - NTS

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
12/16/2020	J. MCMANMON
designed	checked
K. JENSEN	J. KOCHTANEK

UTSouthwestern Medical Center

DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

ELECTRICAL DUCTBANK PLAN AND PROFILE 4

project	contract
128993	

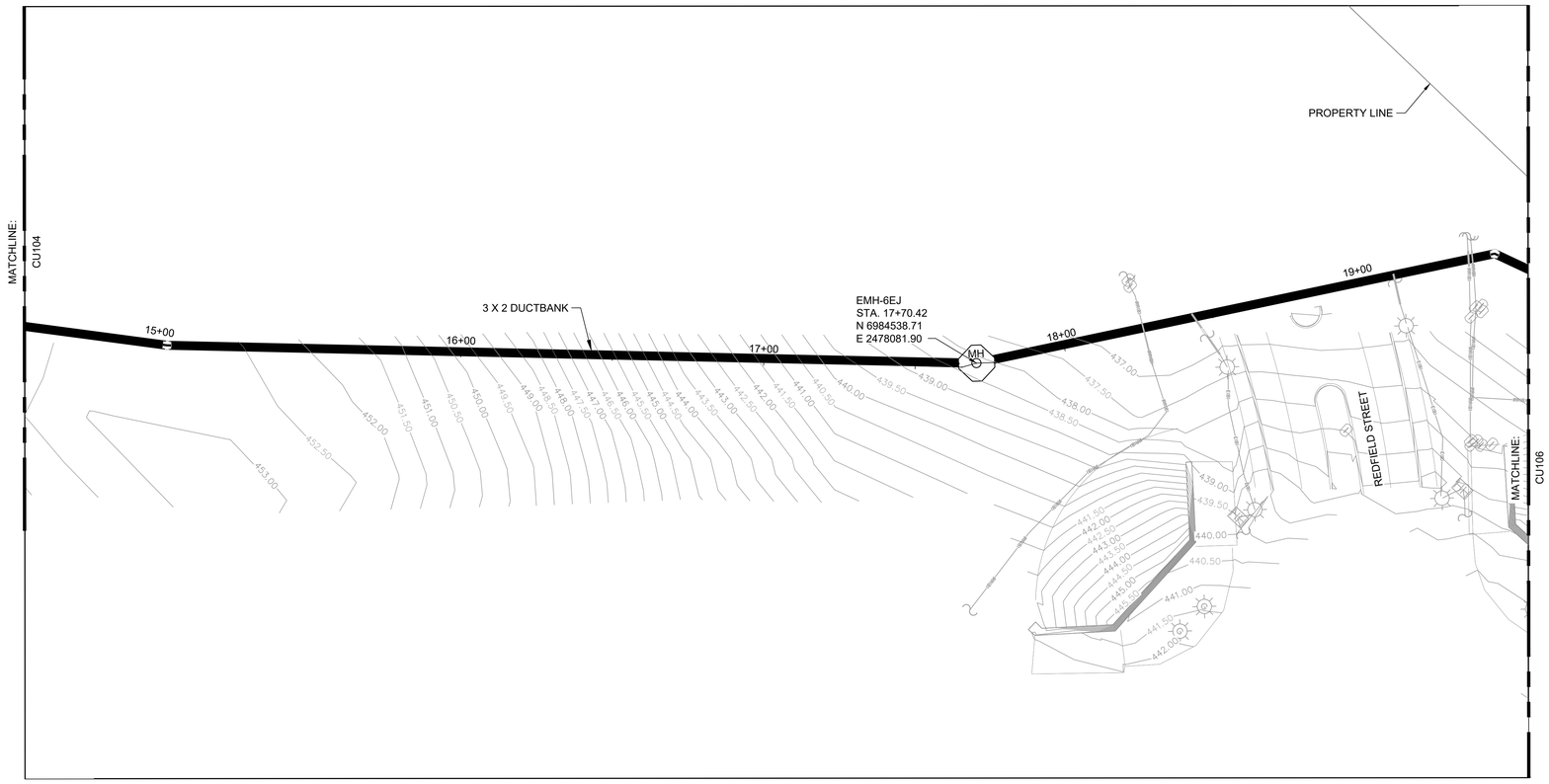
drawing **CU104** — rev. **0**

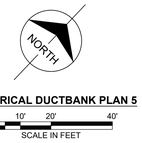
sheet of sheets

file 128993CU101.DWG

ISSUED FOR CONSTRUCTION

STATE OF TEXAS — JEFFREY THOMAS KOCHTANEK — 114703 — 10/12/21





ELECTRICAL DUCTBANK PLAN 5

0 10' 20' 40'
SCALE IN FEET

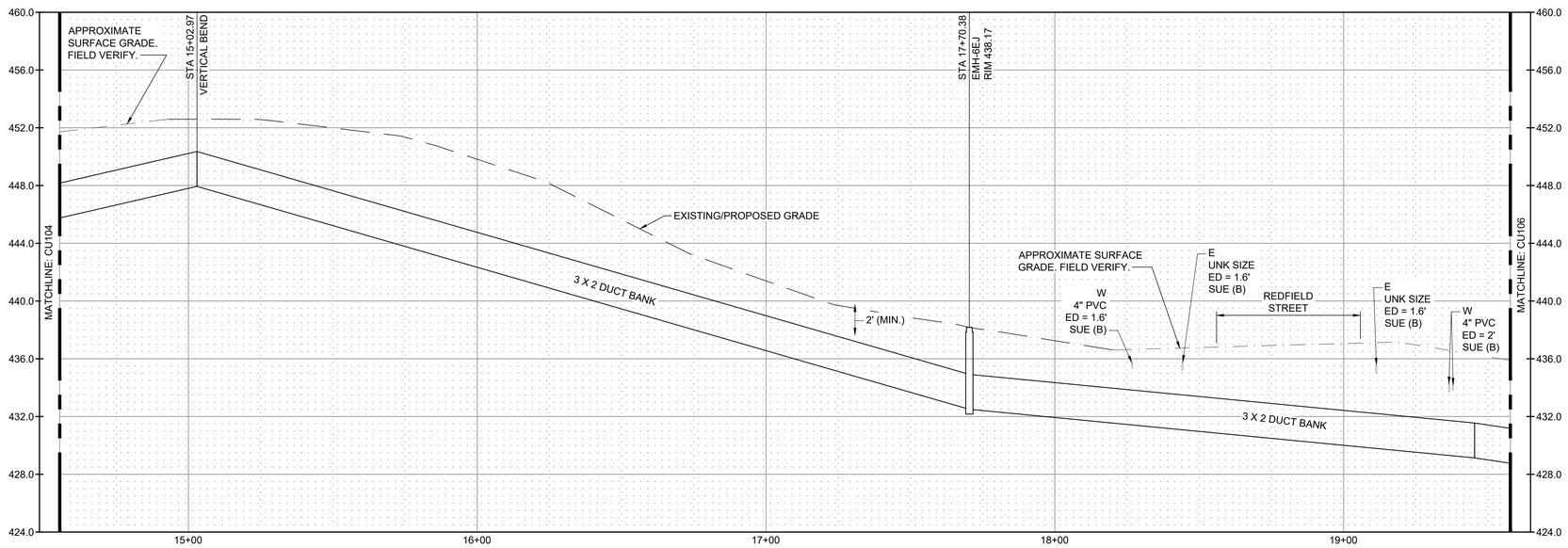
NOTE:

1. SEE GENERAL UTILITY NOTES ON SHEET CU100.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION.
3. PROFILE IS SHOWN AT PROPOSED DUCTBANK CENTERLINE.
4. SEE ELECTRICAL DRAWINGS FOR DUCTBANK CROSS SECTION AND MANHOLE DETAILS.

LEGEND:

- TV(B) — EXISTING CABLE TV
- G(B) — EXISTING GAS
- FO(B) — EXISTING FIBER OPTIC
- T(B) — EXISTING TELEPHONE
- E(B) — EXISTING ELECTRIC
- UNK(B) — EXISTING UNKNOWN
- WW(B) — EXISTING WASTE WATER
- SW(B) — EXISTING STORM
- W(B) — EXISTING WATER
- DIRECT BURY DUCTBANK (SEE E-502)
- TRENCHLESS DUCTBANK
- MH — ELECTRICAL MANHOLE (SEE E-503)

no.	date	by	ckd	description
0	10/12/21	KAJ	JTK	ISSUED FOR CONSTRUCTION



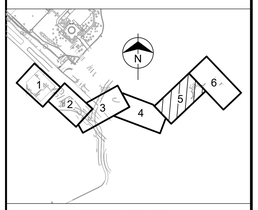
ELECTRICAL DUCTBANK PROFILE 5

VERTICAL SCALE: 0 4' 8'
SCALE IN FEET

HORIZONTAL SCALE: 0 10' 20' 40'
SCALE IN FEET

ISSUED FOR CONSTRUCTION

STATE OF TEXAS — JEFFREY THOMAS KOCHTANEK — 114703 — 10/12/21



KEY PLAN - NTS

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

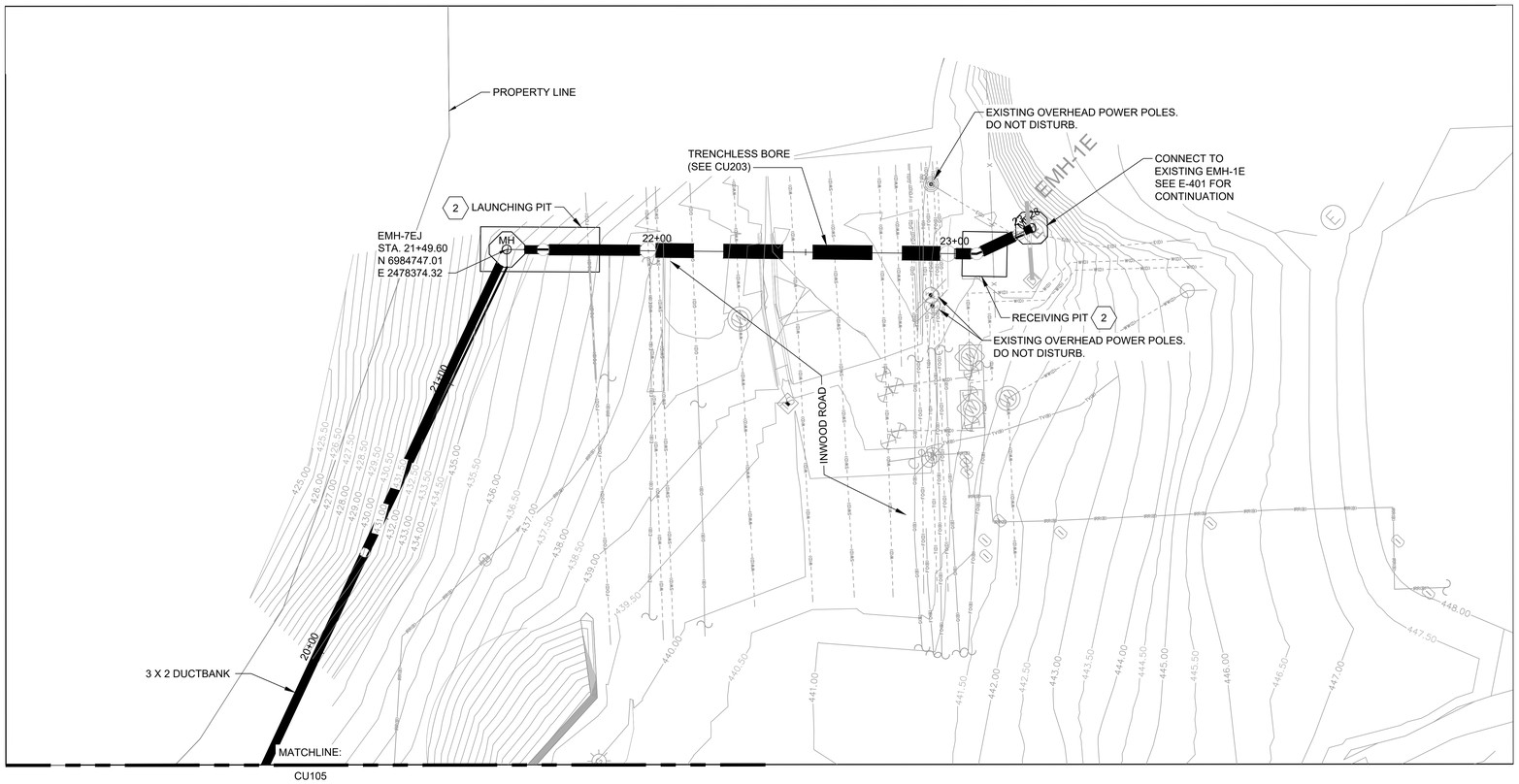
date	detailed
12/16/2020	J. MCMANMON
designed	checked
K. JENSEN	J. KOCHTANEK

UTSouthwestern Medical Center
DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

ELECTRICAL DUCTBANK PLAN AND PROFILE 5

project 128993 | contract
drawing **CU105** | rev. **0**
sheet of sheets
file 128993CU101.DWG



ELECTRICAL DUCTBANK PLAN 6

0 10' 20' 40'
SCALE IN FEET

NOTE:

1. SEE GENERAL UTILITY NOTES ON SHEET CU100.
2. LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE BEGINNING CONSTRUCTION.
3. PROFILE IS SHOWN AT PROPOSED DUCTBANK CENTERLINE.
4. SEE ELECTRICAL DRAWINGS FOR DUCTBANK CROSS SECTION AND MANHOLE DETAILS.
5. SEE CD100-CD103 FOR ADDITIONAL NOTES.

KEYED NOTES:

1. FIELD VERIFY EXISTING EMH-1E MANHOLE DEPTH. NOTIFY ENGINEER IF MANHOLE DEPTH IS LESS THAN SHOWN AND 36" PIPE SLOPE REQUIRES ADJUSTMENT.
2. FIELD VERIFY EXISTING UTILITIES WITHIN LAUNCHING AND RECEIVING PITS, TO CONFIRM EXISTS. CONTRACTOR SHALL RELOCATE UTILITIES AS NEEDED. RELOCATION SHALL BE COORDINATED WITH UTILITY OWNER AND CONSTRUCTED BASED ON UTILITY OWNER REQUIREMENTS.

LEGEND:

- EXISTING CABLE TV
- EXISTING GAS
- EXISTING FIBER OPTIC
- EXISTING TELEPHONE
- EXISTING ELECTRIC
- EXISTING UNKNOWN
- EXISTING WASTE WATER
- EXISTING STORM
- EXISTING WATER
- DIRECT BURY DUCTBANK (SEE E-502)
- TRENCHLESS DUCTBANK
- ELECTRICAL MANHOLE (SEE E-503)

no.	date	by	ckd	description
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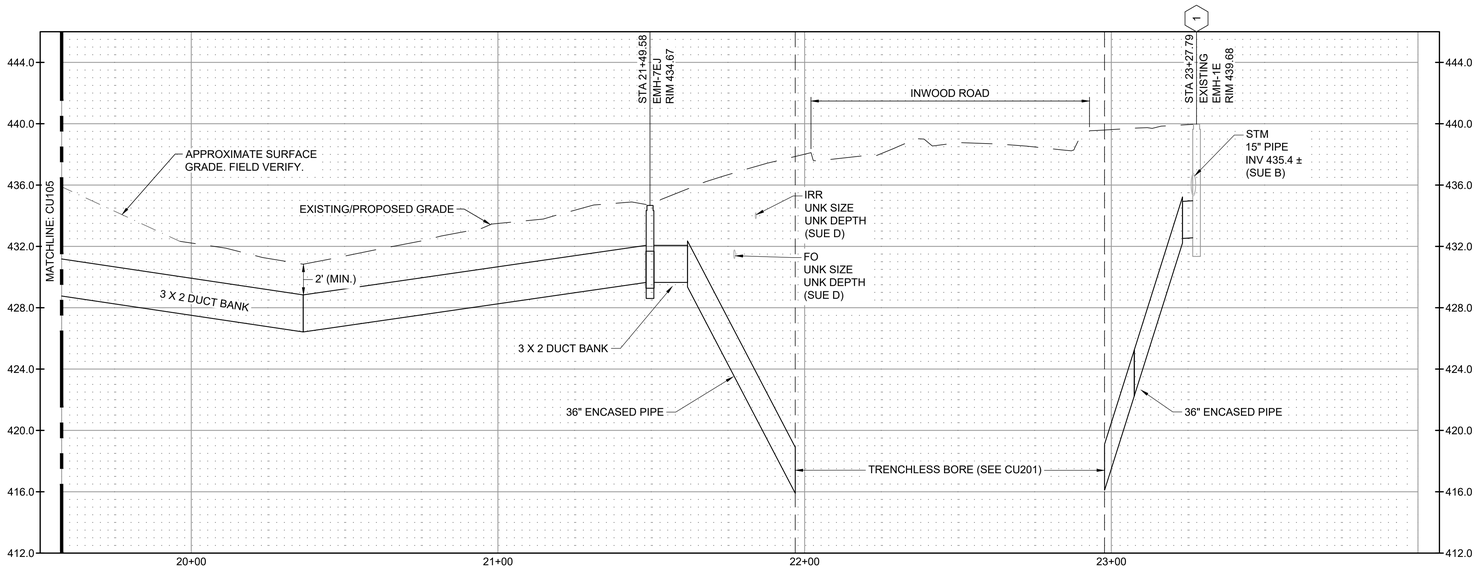


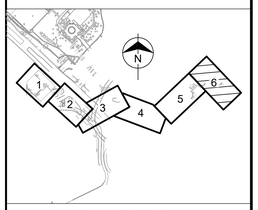
ELECTRICAL DUCTBANK PROFILE 6

VERTICAL SCALE: 0 4' 8'
SCALE IN FEET

HORIZONTAL SCALE: 0 10' 20' 40'
SCALE IN FEET

ISSUED FOR CONSTRUCTION

STATE OF TEXAS
JEFFREY THOMAS KOCHTANEK
114703
10/12/21



KEY PLAN - NTS

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
12/16/2020	J. MCMANMON
designed	checked
K. JENSEN	J. KOCHTANEK

UTSouthwestern Medical Center

DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

ELECTRICAL DUCTBANK PLAN AND PROFILE 6

project	contract
128993	

drawing **CU106** – rev. **0**

sheet of sheets

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no.	date	by	ckd	description
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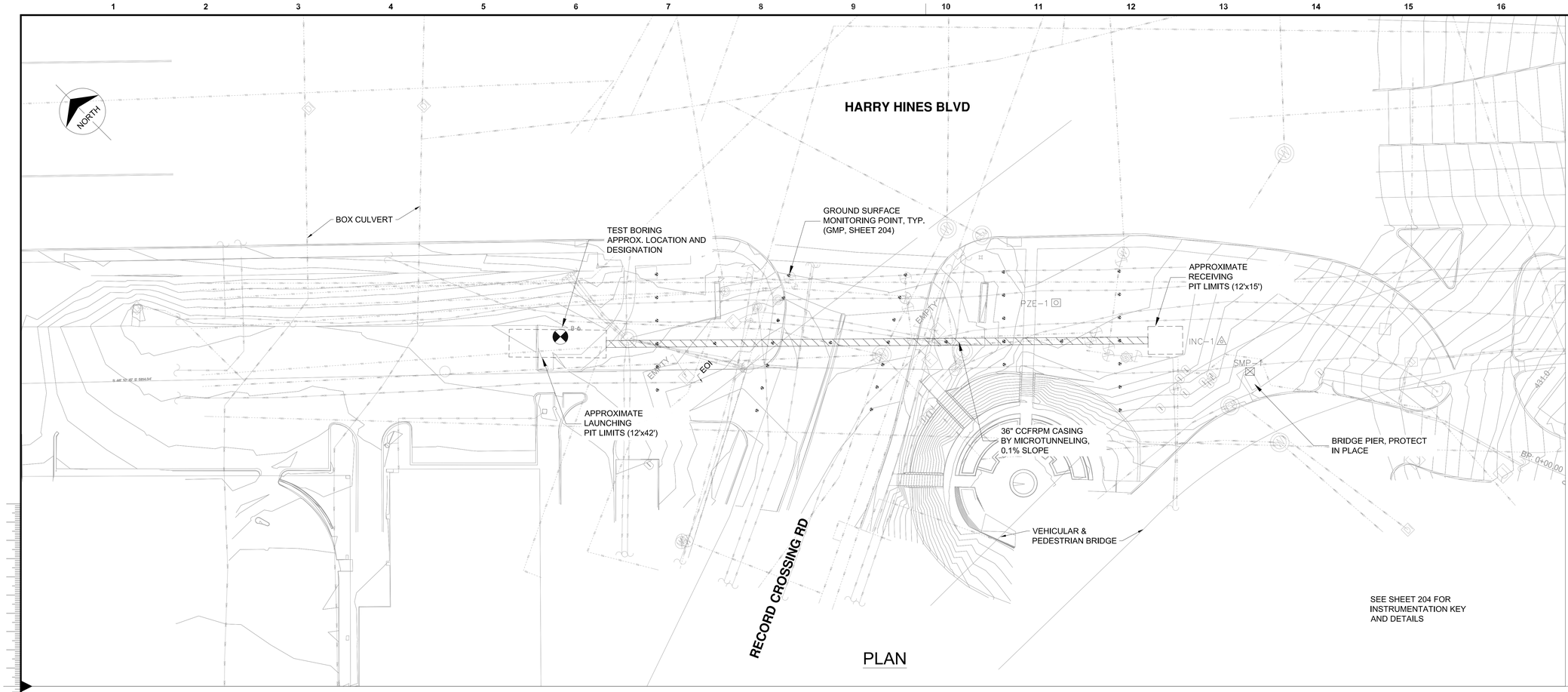
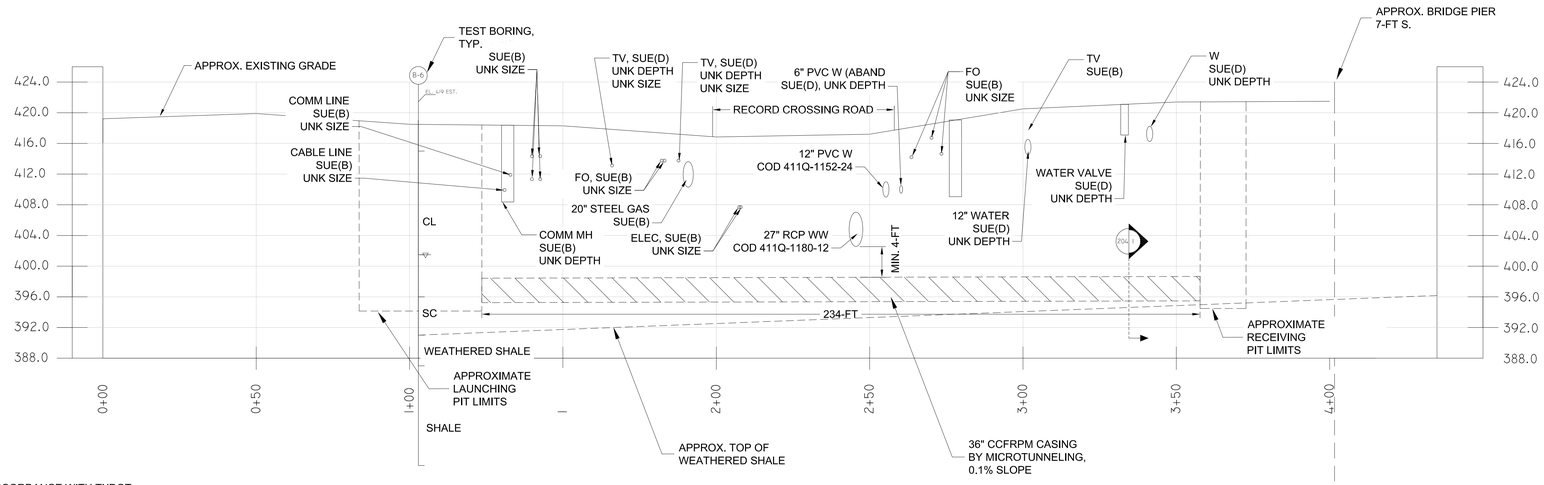


PLAN

NOTE: TRENCHLESS CONFIGURATION SUBJECT TO CHANGE PENDING RECEIPT OF ADDITIONAL UTILITY AND PIER FOUNDATION INFORMATION



PROFILE

0 20' 40'
HORIZONTAL SCALE IN FEET

0 8' 16'
VERTICAL SCALE IN FEET

NOTES - GENERAL:

1. TRENCHLESS CROSSING SHALL BE COMPLETED IN ACCORDANCE WITH TXDOT REQUIREMENTS.
2. TEST BORINGS COMPLETED BY TERRACON DURING JUNE 2021. REFER TO TEST BORING LOGS FOR SUBSURFACE DETAILS. TEST BORING LOCATIONS ARE APPROXIMATE, DETERMINED BY OTHERS.
3. LAUNCHING AND RECEIVING PIT LIMITS SHOWN FOR CONVENIENCE ONLY. PIT DIMENSIONS TO BE DETERMINED BY CONTRACTOR.
4. REFER TO SECTIONS 330504 FOR TRENCHLESS INSTALLATION REQUIREMENTS, PIT AND SURFACE MONITORING REQUIREMENTS.
5. BASE PLAN AND SURFACE SURVEY OBTAINED FROM A FILE ENTITLED "VSP" PREPARED BY SURVEY AND MAPPING LLC, SURVEY COMPLETED JUNE 2021.
6. ELEVATIONS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988. HORIZONTAL COORDINATES BASE ON TEXAS COORDINATE SYSTEM, NORTH CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983.
7. CONTRACTOR SHALL NOT DAMAGE NOR UNDERMINE OVERPASS PIERS. OVERPASS PIER DEPTHS ESTIMATED BASED ON REVIEW OF DRAWINGS ENTITLED "INTERCAMPUS CONNECTOR, TYPICAL CONCRETE DETAILS, SHEET S3.01", PREPARED BY DATUM ENGINEERING, INC., DATED MARCH 1992 AND "OVERHEAD CONNECTOR, PREPARED FOR UTSW HOSPITAL, FOUNDATION DETAILS, SHEET FD-03", PREPARED BY KIMLEY-HORN & ASSOCIATES, INC., AUGUST 2013. CONTRACTOR IS RESPONSIBLE FOR REVIEWING OVERPASS FOUNDATION PLANS.
8. SEE SHEET 204 FOR TRENCHLESS INSTRUMENTATION DETAILS.

NOTES - UTILITIES:

1. CONTRACTOR SHALL NOTIFY TEXAS DIG ALERT (811) PRIOR TO EXCAVATION, AND SHALL MAINTAIN ACTIVE TICKETS THROUGHOUT CONSTRUCTION.
2. SELECTED UTILITIES LOCATED BY SAM COMPANIES DURING 2021:
   - 2.1. UTILITIES DESIGNATED "(D)" LOCATED THROUGH EXISTING DRAWINGS; AND
   - 2.2. UTILITIES DESIGNATED "(B)" LOCATED THROUGH SOFT-DIG METHODS (FIELD VERIFIED).
3. CONTRACTOR TO SOFT-DIG VERIFY ALL NON-LOCATED UTILITIES WITHIN 25-FT OF PITS AND TRENCHLESS INSTALLATION PRIOR TO EXCAVATION. LOCATIONS SHALL BE REPORTED TO THE ENGINEER.

ISSUED FOR CONSTRUCTION

STATE OF TEXAS
BRIAN C. DORWART
98845
LICENSED
PROFESSIONAL ENGINEER

TEXAS REGISTERED ENGINEERING FIRM F-3691

BRIERLEY ASSOCIATES
Creating Space Underground

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX, 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F

date	detailed
10/1/21	N. STRATER
designed	checked
N. STRATER	B. DORWART

UTSouthwestern Medical Center

DALLAS, TX

PHASE 1 EAST - CAMPUS DUCTBANK

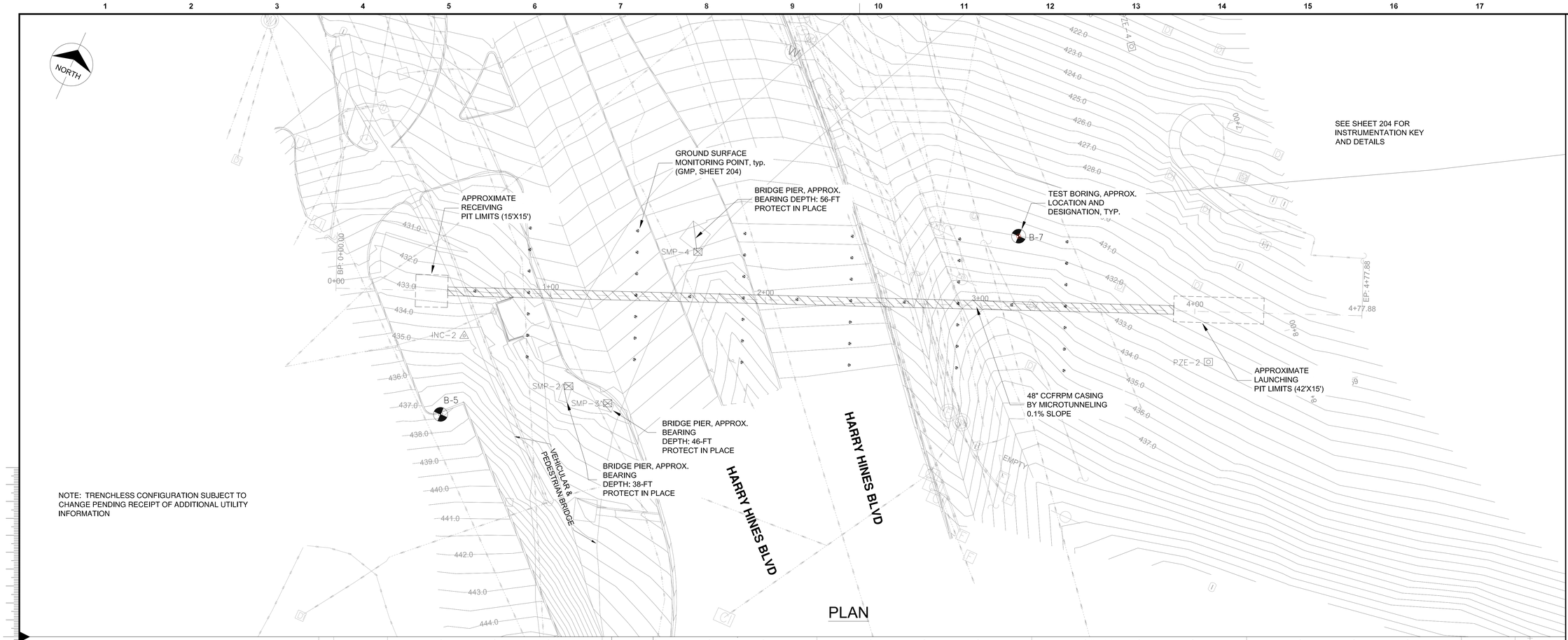
TRENCHLESS CROSSING - RECORD CROSSING RD

project	contract
128993	

drawing **CU201** – rev. **A**

sheet of sheets

file BRIERLEY 100% DRAWING.DWG



NOTE: TRENCHLESS CONFIGURATION SUBJECT TO CHANGE PENDING RECEIPT OF ADDITIONAL UTILITY INFORMATION

PLAN

NOTES - GENERAL:

1. TRENCHLESS CROSSING SHALL BE COMPLETED IN ACCORDANCE WITH TXDOT REQUIREMENTS.
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3. LAUNCHING AND RECEIVING PIT LIMITS SHOWN FOR CONVENIENCE ONLY. PIT LIMITS TO BE DETERMINED BY CONTRACTOR.
4. REFER TO SECTIONS 330504 FOR TRENCHLESS INSTALLATION, PIT AND SURFACE MONITORING REQUIREMENTS.
5. BASE PLAN AND SURFACE SURVEY OBTAINED FROM A FILE ENTITLED "VSP" PREPARED BY SURVEY AND MAPPING LLC, SURVEY COMPLETED JUNE 2021.
6. ELEVATIONS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988. HORIZONTAL COORDINATES BASE ON TEXAS COORDINATE SYSTEM, NORTH CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983.
7. CONTRACTOR SHALL NOT DAMAGE NOR UNDERMINE OVERPASS PIERS. OVERPASS PIER DEPTHS ESTIMATED BASED ON REVIEW OF DRAWINGS ENTITLED "INTERCAMPUS CONNECTOR, TYPICAL CONCRETE DETAILS, SHEET S3.01", PREPARED BY DATUM ENGINEERING, INC., DATED MARCH 1992 AND "OVERHEAD CONNECTOR, PREPARED FOR UTSW HOSPITAL, FOUNDATION DETAILS, SHEET FD-03", PREPARED BY KIMLEY-HORN & ASSOCIATES, INC., AUGUST 2013. CONTRACTOR IS RESPONSIBLE FOR REVIEWING OVERPASS FOUNDATION PLANS.
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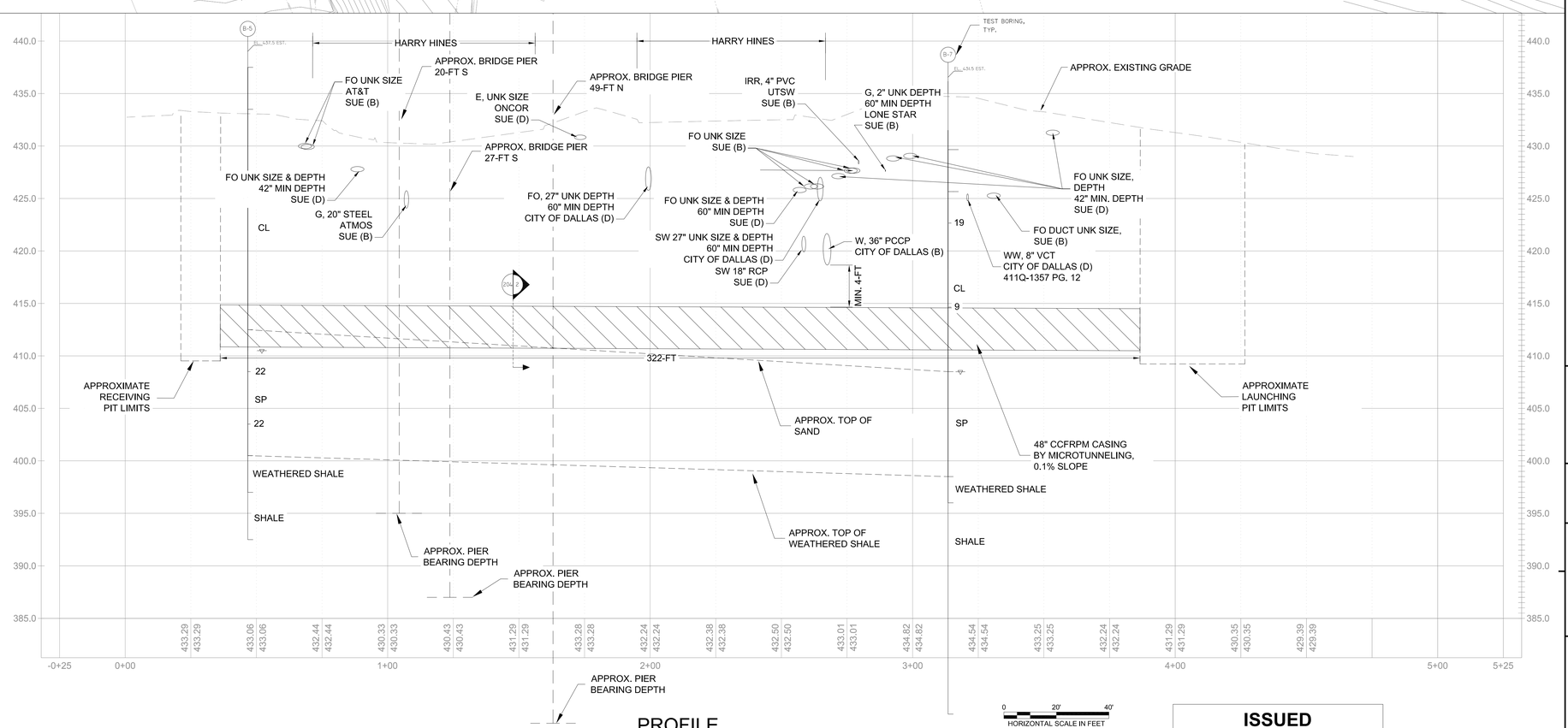

PROFILE

0 20' 40'
HORIZONTAL SCALE IN FEET

0 5' 10'
VERTICAL SCALE IN FEET

ISSUED FOR CONSTRUCTION

no.	date	by	ckd	description
0	10/12/21	NS	BD	ISSUE FOR CONSTRUCTION

STATE OF TEXAS
BRIAN C. DORWART
98845
LICENSED
PROFESSIONAL ENGINEER

TEXAS REGISTERED ENGINEERING FIRM F-3691

BRIERLEY ASSOCIATES
Creating Space Underground

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX, 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F

date	detailed
10/1/21	N. STRATER
designed	checked
N. STRATER	B. DORWART

UTSouthwestern Medical Center

DALLAS, TX

PHASE 1 EAST - CAMPUS DUCTBANK

TRENCHLESS CROSSING - HARRY HINES BLVD

project 128993 | contract

drawing CU202 – rev. A

sheet of sheets

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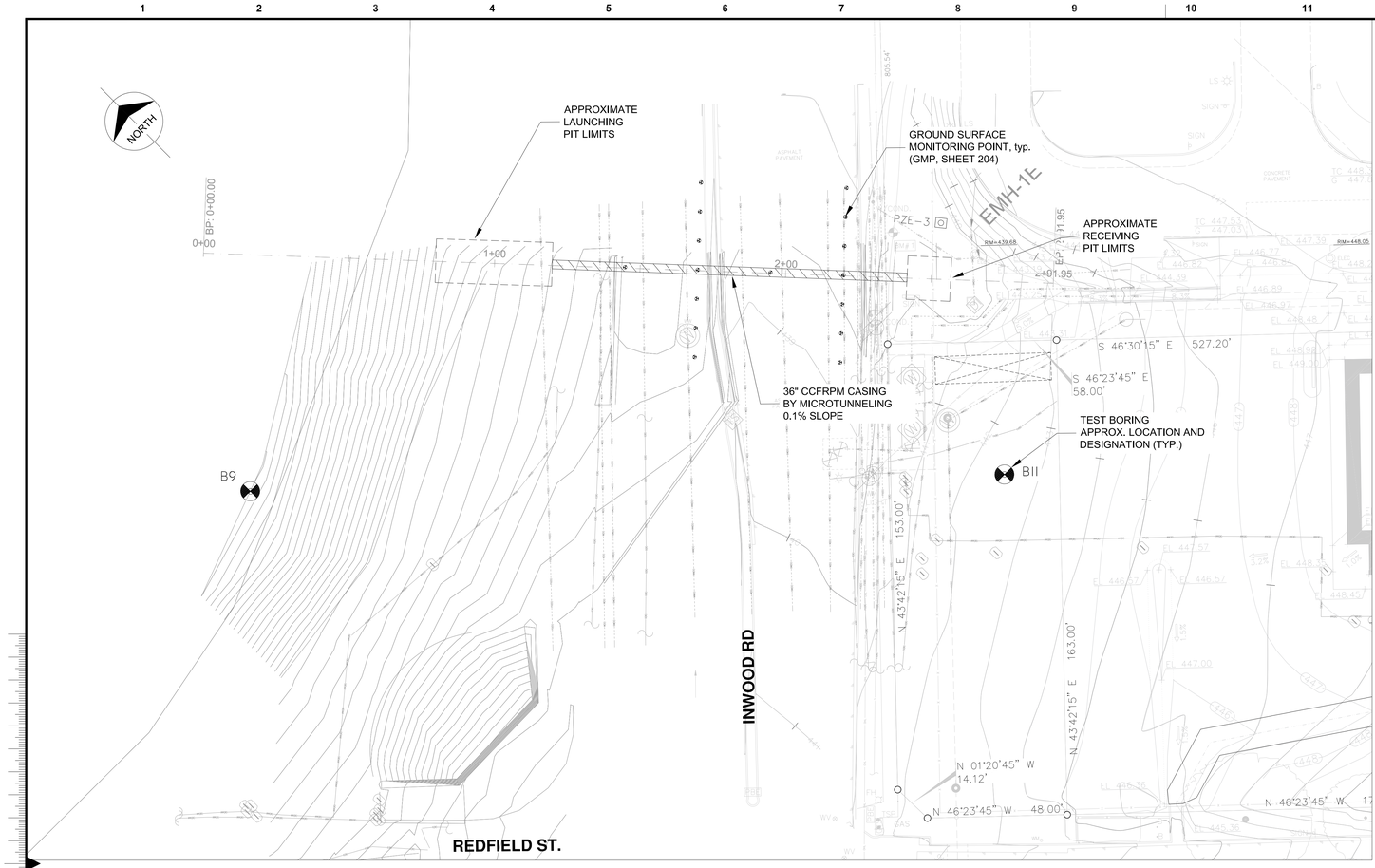
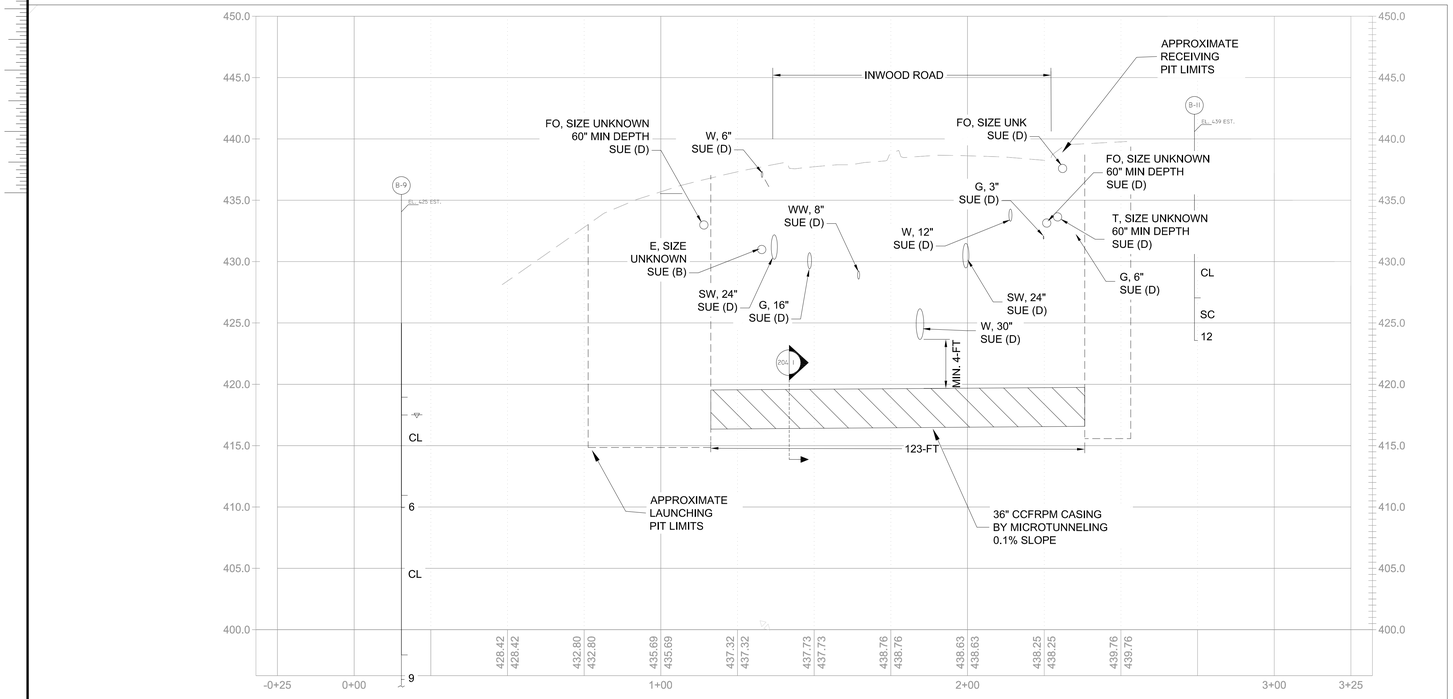


PLAN



PROFILE

SEE SHEET 204 FOR INSTRUMENTATION KEY AND DETAILS

NOTES - GENERAL:
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3. LAUNCHING AND RECEIVING PIT LIMITS SHOWN FOR CONVENIENCE ONLY. PIT LIMITS TO BE DETERMINED BY CONTRACTOR.
4. REFER TO SECTION 330544 FOR TRENCHLESS INSTALLATION AND SURFACE MONITORING REQUIREMENTS.
5. BASE PLAN AND SURFACE SURVEY OBTAINED FROM A FILE ENTITLED "VSP" PREPARED BY SURVEY AND MAPPING LLC, SURVEY COMPLETED JUNE 2021.
6. ELEVATIONS BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988. HORIZONTAL COORDINATES BASE ON TEXAS COORDINATE SYSTEM, NORTH CENTRAL ZONE, NORTH AMERICAN DATUM OF 1983.
7. SEE SHEET 204 FOR TRENCHLESS INSTRUMENTATION DETAILS.

NOTES - UTILITIES:
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NOTE: TRENCHLESS CONFIGURATION SUBJECT TO CHANGE PENDING RECEIPT OF ADDITIONAL UTILITY INFORMATION

0 20' 40'
HORIZONTAL SCALE IN FEET

0 5' 10'
VERTICAL SCALE IN FEET

ISSUED FOR CONSTRUCTION

no.	date	by	ckd	description
0	10/12/21	NS	BD	ISSUE FOR CONSTRUCTION

STATE OF TEXAS
BRIAN C. DORWART
98845
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TEXAS REGISTERED ENGINEERING FIRM F-3691

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10/1/21	N. STRATER
designed	checked
N. STRATER	B. DORWART

UTSouthwestern Medical Center

DALLAS, TX

PHASE 1 EAST - CAMPUS DUCTBANK

TRENCHLESS CROSSING - INWOOD RD

project 128993 | contract

drawing **CU203** – rev. **A**

sheet of sheets

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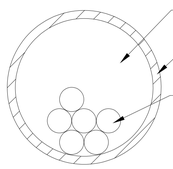
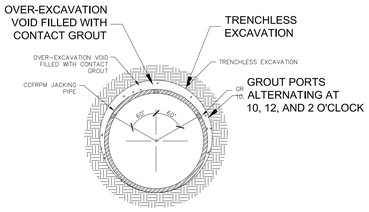
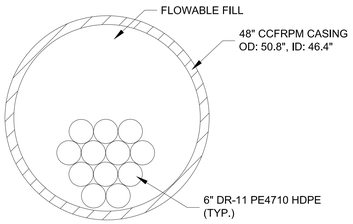
Millimeters
Scale For Microfilming
Inches



1 36-IN TRENCHLESS CASING DETAIL
NTS



A GROUT PORT LAYOUT SECTION
NTS



2 48-IN TRENCHLESS CASING DETAIL
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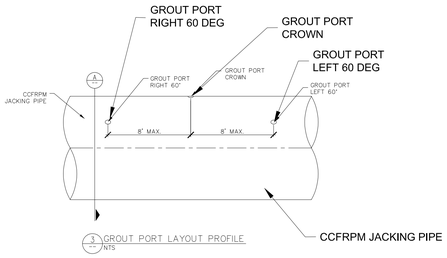


3 GROUT PORT LAYOUT PROFILE
NTS

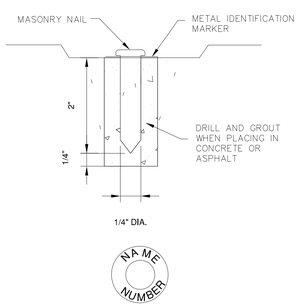
GENERAL:
1. SEE SPECIFICATION SECTIONS 330524 AND 330504 FOR GEOTECHNICAL INSTRUMENTATION REQUIREMENTS.
2. REFER TO PLANS FOR INSTRUMENTATION LOCATIONS. LOCATIONS MAY BE ADJUSTED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY ENGINEER.

PIEZOMETERS:
1. CONTRACTOR SHALL PROVIDE AND INSTALL PIEZOMETER SCREENS WITH MACHINE-SLOTTED PIPE, BOTTOM CAPS AND VENTED TOP CAPS AS INDICATED ON THE TYPICAL PIEZOMETER DETAIL ON THIS SHEET. THE SLOTTED PIPE SHALL BE TWO (2) INCH SCHEDULE 80 PVC PIPE WITH THREE ROWS OF 0.01-INCH WIDE SLOTS ON 120-DEGREE CENTERS, WITH A SLOT LENGTH TO LEAVE 0.25 INCH BETWEEN ROWS. THE RISER PIPE SHALL BE TWO (2) INCH SCHEDULE 80 FLUSH JOINT PVC PIPE.
2. FILTER SAND SHALL CONFORM TO ASTM C778, STANDARD SPECIFICATION FOR STANDARD SAND, FOR 20-30 SAND.
3. GRANULAR BENTONITE SHALL BE ENVIROPLUG MEDIUM, AS MANUFACTURED BY WYO-BEN, INC., BILLINGS, MT, OR HOLEPLUG, AS MANUFACTURED BY BAROID DIVISION, PETROLEUM SERVICES, INC., HOUSTON, TX, OR ACCEPTABLE EQUIVALENT.
4. SPECIAL GROUT TYPE B SHALL CONSIST OF SANDED, NON-SHRINK GROUT AND BE PLACED AS SHOWN ON THE TYPICAL PIEZOMETER DETAIL ON THIS SHEET.

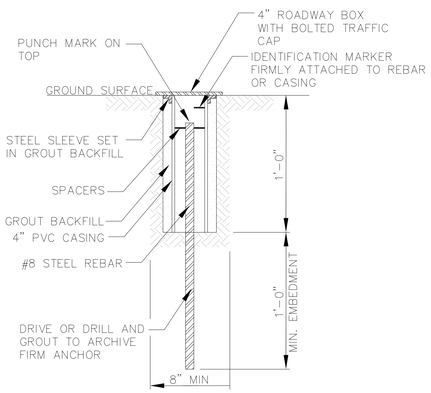
STRUCTURE MONITORING POINTS:
1. STRUCTURE MONITORING POINTS (SMP) SHALL CONSIST OF WATERPROOF REFLECTIVE TARGETS FIXED TO DESIGNATED STRUCTURE WITH WATERPROOF ADHESIVE.

GROUND SURFACE MONITORING POINTS:
1. GROUND SURFACE MONITORING POINTS (GMP) SHALL CONSIST OF A 1/4-INCH-DIAMETER MASONRY NAIL DRIVEN INTO AN ASPHALT PAVED SURFACE AS INDICATED. FOR CONCRETE SURFACES, THE GMP SHALL BE DRILLED AND GROUTED IN PLACE. FOR GRAVEL OR UNPAVED SURFACE, THE GMP SHALL CONSIST OF A 2-FT LONG, NO. 8 REBAR DRIVEN FLUSH WITH THE GROUND SURFACE WITH A PROTECTIVE COVER AND FLAGGING NOTING ITS LOCATION.

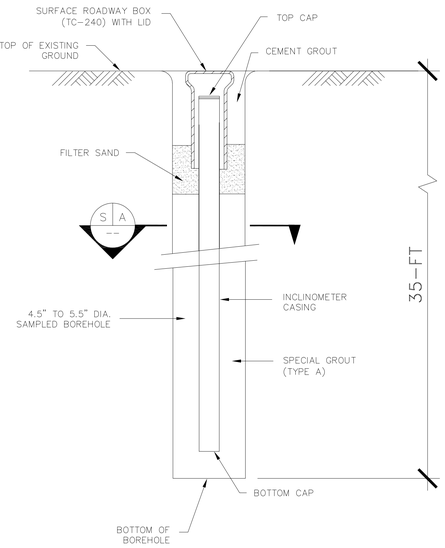
INCLINOMETERS:
1. INCLINOMETER CASING SHALL BE 2.75-INCH O.D. ABS PLASTIC CASING WITH FOUR GROOVES MACHINED AT 90 DEGREES. INCLINOMETER INNER CASING, ALONG WITH ASSOCIATED COUPLINGS AND END CAPS, SHALL ALSO BE PROVIDED AND INSTALLED BY THE CONTRACTOR. REFER TO THE TYPICAL INCLINOMETER DETAIL ON THIS SHEET.
2. THE INCLINOMETER PROBE, READOUT UNIT, CABLE AND PULLEY ASSEMBLY SHALL BE PROVIDED BY THE CONTRACTOR.
3. SPECIAL GROUT TYPE A SHALL CONSIST OF A MIXTURE OF TYPE II CEMENT AND UNIFORM SIZED FINE GROUND OR POWDERED NON-DRILLING MUD GRADE BENTONITE THAT HAS A STIFFNESS SIMILAR TO THE MEDIUM (SOIL) IN WHICH INCLINOMETER CASINGS WILL BE INSTALLED. A POLYMER-BASED THIXOTROPIC ADDITIVE MAY ALSO BE ADDED TO THE MIX IF RECOMMENDED BY THE MANUFACTURER. GROUT TYPE A SHALL BE PLACED AS SHOWN ON THE TYPICAL INCLINOMETER DETAIL ON THIS SHEET.



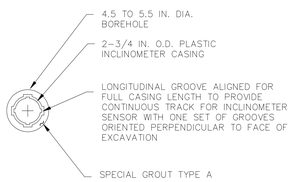
4 GROUND SURFACE MONITORING POINT (GMP) DETAIL
NOT TO SCALE



5 GROUND SURFACE MONITORING POINT (GMP) IN SOIL DETAIL



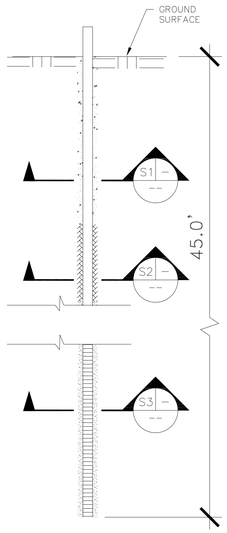
6 INCLINOMETER DETAIL
NOT TO SCALE



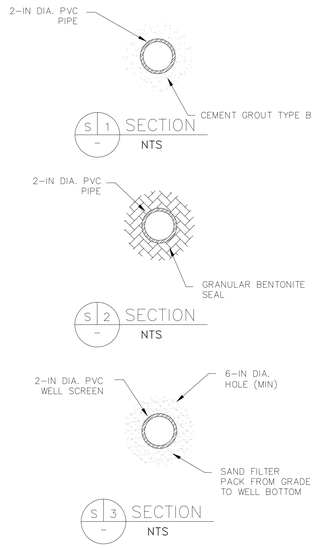
PLAN VIEW
SECTION A-A

PIEZOMETER CONSTRUCTION SEQUENCE:

1. DRILL 6-IN DIAMETER HOLE. TAKE CONTINUOUS SPLIT SPOON SAMPLES.
2. INSTALL 2-IN DIAMETER SCHEDULE 80 PVC PIPE AND WELL SCREEN.
3. INSTALL FILTER PACK CONFORMING TO ASTM C778 TO 2-FT ABOVE SCREEN.
4. INSTALL 4-FT THICK BENTONITE SEAL.
5. GROUT ANNULUS TO GRADE.



PROFILE



7 PIEZOMETER DETAIL
NOT TO SCALE

TRENCHLESS INSTRUMENTATION KEY

SMP-1 ☒	STRUCTURE MONITORING POINT LOCATION AND DESIGNATION
PZE-1 ⊡	PIEZOMETER LOCATION AND DESIGNATION
INC-1 △	INCLINOMETER LOCATION AND DESIGNATION
GMP ⊕	GROUND SURFACE MONITORING POINT LOCATION

ISSUED FOR CONSTRUCTION

no.	date	by	ckd	description
0	10/12/21	NS	BD	ISSUE FOR CONSTRUCTION

STATE OF TEXAS
BRIAN C. DORWART
98845
LICENSED
PROFESSIONAL ENGINEER

TEXAS REGISTERED
ENGINEERING FIRM F-3691

BRIERLEY ASSOCIATES
Creating Space Underground

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX, 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F

date	detailed
10/1/21	N. STRATER
designed	checked
N. STRATER	B. DORWART

UTSouthwestern Medical Center

DALLAS, TX

PHASE 1 EAST - CAMPUS DUCTBANK

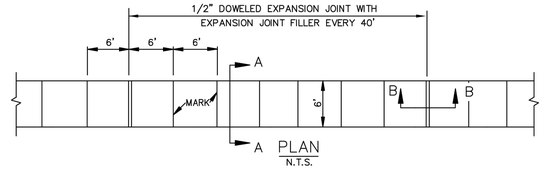
TRENCHLESS DETAILS

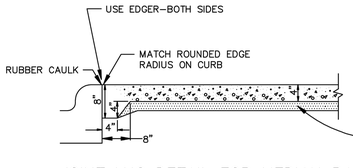
project	contract
128993	

drawing **CU204** rev. **A**

sheet of sheets

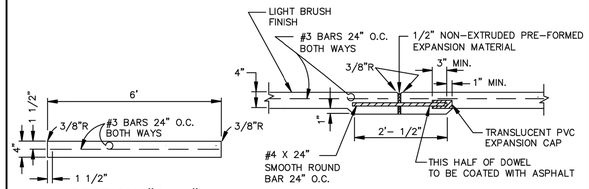
file BRIERLEY 100% DRAWING.DWG





JOINT LUG DETAIL FOR MEDIAN PAVEMENT
OR SIDEWALK ADJACENT TO CURB

N.T.S.

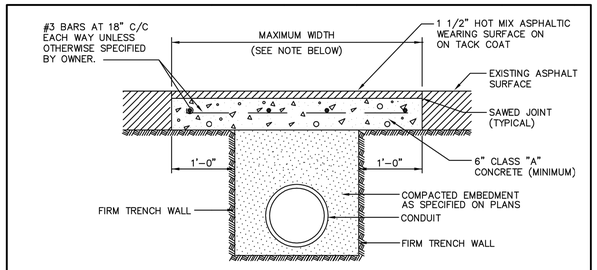


SECTION "A-A"
N.T.S.

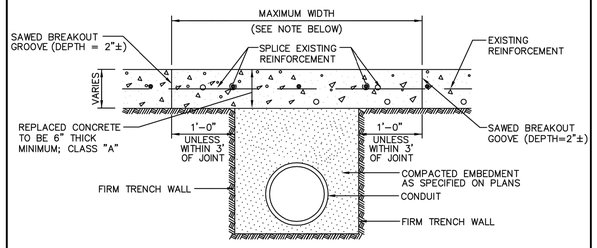
SECTION "B-B"
N.T.S.

NOTE:
1. REFER TO STANDARD SPECIFICATION ITEM 305.2 FOR ALTERNATE REINFORCEMENT.
2. CROSS SLOPE OF SIDEWALK SHALL BE ± 1/4" PER FT. MIN. TO ± 3/8" PER FT. MAX.
3. OTHER THAN 6'-0" SIDEWALK WIDTH MAY BE SPECIFIED BY OWNER.
4. SIDEWALK SHALL BE CLASS "A" CONCRETE UNLESS OTHERWISE SPECIFIED BY OWNER.
5. ALL HONEYCOMB IN BACK OF CURB TO BE TROWEL-PLASTERED BEFORE POURING SIDEWALK.
6. LUG MAY BE FORMED BY SHAPING SUBGRADE TO APPROXIMATE DIMENSIONS SHOWN.

REINFORCED CONCRETE SIDEWALKS	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 305.2	
JOINTS AND SPACING		DATE OCT. '04	STANDARD DRAWING NO. 2170



ASPHALT PAVEMENT
N.T.S.

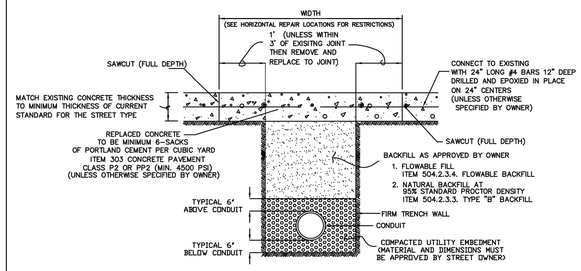


CONCRETE PAVEMENT
N.T.S.

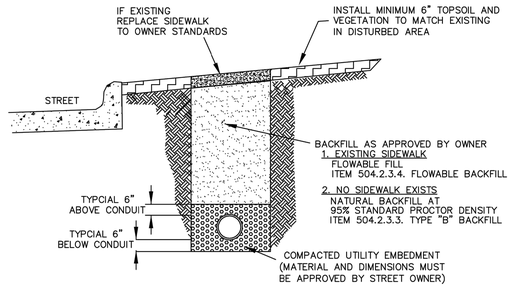
NOTES:
1. PAYMENT TO THE CONTRACTOR FOR REPLACEMENT OF PAVEMENT AND/OR DRIVEWAYS WILL BE BASED ON ACTUAL MEASUREMENTS UP TO A MAXIMUM WIDTH EQUAL TO THE SPECIFIED MAXIMUM TRENCH WIDTH (PER STD. SPEC. ITEM 6.2.) PLUS 2 FEET. ANY EXISTING PAVEMENT DAMAGED OR REMOVED IN EXCESS OF THE MAXIMUM LIMITS SHALL BE AT THE EXPENSE OF THE CONTRACTOR.
2. WHEN REMOVING CONCRETE PAVEMENT THE CONTRACTOR SHALL ENDEAVOR TO LIMIT DAMAGE TO EXISTING REINFORCEMENT SO IT MAY BE EMPLOYED IN THE REPLACEMENT OPERATION. IF ORIGINAL REINFORCEMENT IS CUT OR BROKEN, REPLACEMENT BARS OF THE SAME SIZE SHALL BE INSTALLED BY DRILLING AND DOWELLING AS DIRECTED BY THE OWNER.

PAVEMENT CUTS	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 402.1	
REMOVAL AND REPLACEMENT		DATE OCT. '04	STANDARD DRAWING NO. 3070

GENERAL NOTE: CHECK WITH STREET OWNER FOR
SPECIFIC REQUIREMENTS NOT CONTAINED HEREIN



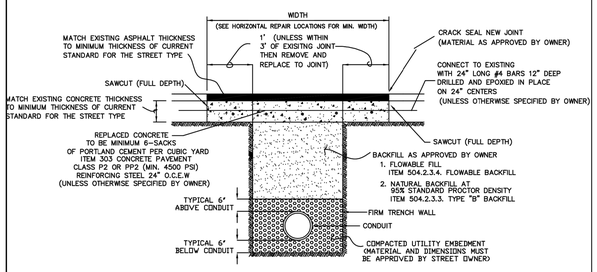
CONCRETE PAVEMENT
N.T.S.



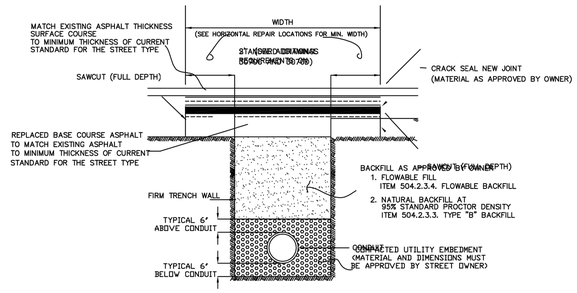
STREET PARKWAY
N.T.S.

PAVEMENT CUT AND REPAIR	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 402	
CONCRETE AND PARKWAY		DATE OCT. '04	STANDARD DRAWING NO. 3070A

GENERAL NOTE: CHECK WITH STREET OWNER FOR
SPECIFIC REQUIREMENTS NOT CONTAINED HEREIN

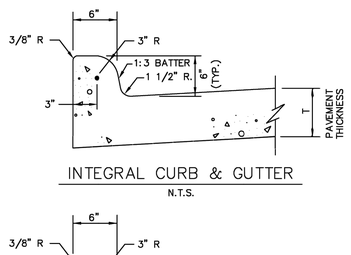


CONCRETE PAVEMENT WITH ASPHALT OVERLAY
N.T.S.

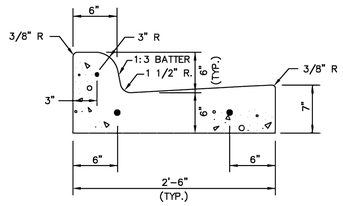


FULL DEPTH ASPHALT PAVEMENT
N.T.S.

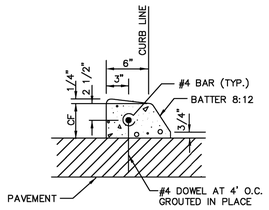
PAVEMENT CUT AND REPAIR	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 402	
ASPHALT		DATE OCT. '04	STANDARD DRAWING NO. 3070B



INTEGRAL CURB & GUTTER
N.T.S.



SEPARATE CURB & GUTTER
N.T.S.



DOWELED CURB
N.T.S.

NOTES:
1. REINFORCEMENT SHALL BE NO. 4 BARS, UNLESS OTHERWISE SPECIFIED.
2. CONCRETE SHALL BE CLASS "C" OR "PC".
3. "CF" IS 6" UNLESS OTHERWISE SPECIFIED.
4. ALL CURBS ARE CONSTRUCTED OF PORTLAND CEMENT CONCRETE UNLESS OTHERWISE SHOWN.
5. GRADE SHALL BE MEASURED AT BACK OF CURB.

CONCRETE CURB & GUTTER	North Central Texas Council of Governments	STANDARD SPECIFICATION REFERENCE 305.1	
INTEGRAL, SEPARATE, & DOWELED		DATE OCT. '04	STANDARD DRAWING NO. 2120

ISSUED FOR CONSTRUCTION

STATE OF TEXAS
JEFFREY THOMAS KOCHTANEK
114703
10/12/21

no.	date	by	ckd	description
0	10/12/21	KAJ	JTK	ISSUED FOR CONSTRUCTION

REFERENCE DRAWING

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date 12/16/2020	detailed J. MCMANMON
designed K. JENSEN	checked J. KOCHTANEK

UTSouthwestern Medical Center
DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK
CIVIL DETAILS 1

project 128993	contract
drawing C-501	rev. 0
sheet	of sheets

file 128993C-501.DWG

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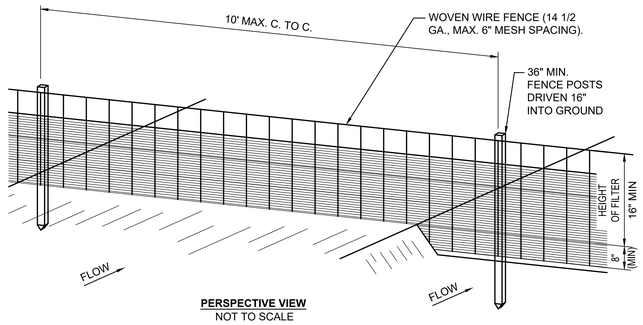
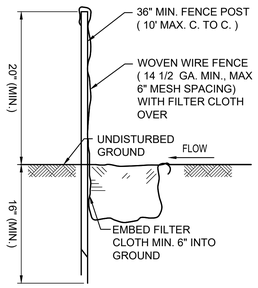


PERSPECTIVE VIEW
NOT TO SCALE



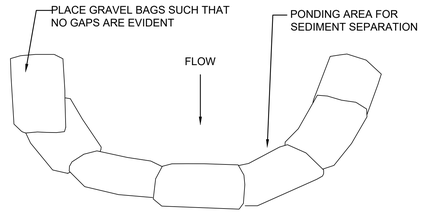
CONSTRUCTION NOTES FOR FABRICATED SILT FENCE:

1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES OR STAPLES.
2. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER- LAPPED BY SIX INCHES AND FOLDED.
4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
5. SEE EROSION AND SEDIMENT CONTROL NOTES ON CG101 AND CG102.

FILTER CLOTH: FILTER X, MIRAFI 100X, STABILINKA T140N OR APPROVED EQUAL.
PREFABRICATED UNIT: GEOFAB, ENVIROFENCE, OR APPROVED EQUAL.

POSTS: STEEL EITHER "T" OR "U" TYPE OR 2" HARDWOOD.
FENCE: WOVEN WIRE 14 1/2 GA. 6" MAX. MESH OPENING.

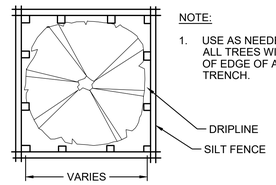
SILT FENCE DETAIL 1 CG101 CG102



NOTES:

1. PLACE GRAVEL BAG BARRIER ON GENTLY SLOPING STREET, WHERE WATER CAN POND AND ALLOW SEDIMENT TO SEPARATE FROM RUNNOFF.
2. USE SAND BAGS OF WOVEN GEOTEXTILE FABRIC (NOT BURLAP) APPROXIMATELY 24 INCHES LONG, 12 INCHES WIDE, AND 6 INCHES HIGH AND FILL WITH 3/4 INCH (OR SMALLER) GRAVEL. BAGS MUST BE LAYERED SUCH THAT NO GAPS ARE EVIDENT.
3. INSPECT BARRIERS AND REMOVE SEDIMENT AFTER EACH STORM EVENT, SEDIMENT AND GRAVEL MUST BE REMOVED FROM THE TRAVELED WAY IMMEDIATELY.
4. AN APPROVED FILTER TUBE MAY BE USED IN LIEU OF GRAVEL BAGS.
5. SEE EROSION AND SEDIMENT CONTROL NOTES ON CG101 AND CG102.
6. DANDY DROP INLET PROTECTION WITH FW @ 402 GEOTEXTILE, OR APPROVED EQUAL SHALL BE USED FOR INLET PROTECTION.

GRAVEL BAG SEDIMENT CONTROL 2 CG101 CG102



NOTE:

1. USE AS NEEDED FOR ALL TREES WITHIN 10' OF EDGE OF ANY TRENCH.

TREE PROTECTION 3 CG101 CG102

ISSUED FOR CONSTRUCTION

STATE OF TEXAS
JEFFREY THOMAS KOCHTANEK
114703
10/12/21

no.	date	by	ckd	description
0	10/12/21	KAJ	JTK	ISSUED FOR CONSTRUCTION

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
12/16/2020	J. MCMANMON
designed	checked
K. JENSEN	J. KOCHTANEK

UTSouthwestern Medical Center
DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

CIVIL DETAILS 2

project 128993 | contract
drawing **C-502** – rev. **0**
sheet of sheets
file 128993C-501.DWG

C:\USERS\UTMCMANMON\ACCDOCS\BURNS & MCDONNELL\128993_WESTCAMPUSDB\PROJECT FILES\1. WIP\CIVIL\SHEETS\PHASE I\128993C-501.DWG

SCHEMATIC AND ONE-LINE DIAGRAM SYMBOLS

- NORMALLY OPEN CONTACTS
- NORMALLY CLOSED CONTACTS
- THERMAL MAGNETIC BREAKER
- DELTA CONFIGURED TRANSFORMER WINDING
- SOLIDLY GROUNDED WYE CONFIGURED TRANSFORMER WINDING
- TWO WINDING TRANSFORMER
- CONNECTION TO GROUNDING SYSTEM
- RESISTANCE BOND TO GROUNDING SYSTEM
- RED LED INDICATOR LIGHT
- GREEN LED INDICATOR LIGHT
- TEST SWITCH (POTENTIAL, DC CONTROLS)
- TEST SWITCH (CURRENT)
- 52T BREAKER TRIP COIL
- 52C BREAKER CLOSE COIL
- ANSI DEVICE: X1 AND X2 DENOTES TERMINAL NUMBERS, Y DENOTES DEVICE NUMBER
- CONNECTION
- FUSE
- CONNECTOR
- SURGE ARRESTER
- MEDIUM VOLTAGE DRAW-OUT CIRCUIT BREAKER

SCHEMATIC AND ONE-LINE DIAGRAM SYMBOLS CONTINUED

- ZENER DIODE
- NORMALLY OPEN PUSHBUTTON
- NORMALLY CLOSED PUSHBUTTON
- MULTIFUNCTION DIGITAL POWER METER
- INSTRUMENTATION POTENTIAL TRANSFORMER
- BUSHING MOUNTED CURRENT TRANSFORMER, DOT INDICATES DIRECTION OF POLARITY
- AUTOMATIC TRANSFER SWITCH
- DISCONNECT SWITCH, FUSED
- DISCONNECT SWITCH, NON-FUSED
- DISCONNECT SWITCH, WITH GROUND SWITCH, NON-FUSED

POWER

- HIDDEN CONDUIT
- EXPOSED CONDUIT
- HOMERUN TO PANEL
- 120 VAC, 20A, NEMA 5-20R DUPLEX RECEPTACLE. MOUNTED 18" AFF, UON.
- DOUBLE DUPLEX RECEPTACLE
- DISCONNECT SWITCH, 30A, 480V, NEMA 1 ENCLOSURE, UON.
- FUSED DISCONNECT SWITCH, 30A, 480V NEMA 1 ENCLOSURE, UON.
- PANEL BOARD
- PANEL BOARD
- LIGHTING PANEL BOARD
- CONTROL STATION

GROUNDING

- BURIED #4/0 AWG BARE COPPER
- ABOVE GRADE #4/0 AWG BARE COPPER
- GROUND CABLE CONTINUATION
- BOLTED CONNECTION
- EXOTHERMIC WELDED CONNECTION
- 10'-0" LONG 3/4" COPPER CLAD STEEL GROUND ROD
- GROUND BAR
- GROUND MAT

ANNOTATION

- CONTINUATION
- HAZARDOUS LOCATIONS
- KEYED NOTE
- NORTH ARROW
- CABLE TAG (C001 / EC-601): CONTINUATION OF CABLE ON THIS SHEET
- XXXXX CABLE SCHEDULE DESIGNATION

NO. / SHT | SHT — SHEET WHERE TAKEN — SHEET WHERE SHOWN

SECTION CUT

NUM / SHT1 | SHT2 — SHEET WHERE SHOWN — SHEET WHERE TAKEN — DETAIL OR SECTION TITLE

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AL	ALUMINUM
AWG	AMERICAN WIRE GAUGE
BCT	BUSHING CURRENT TRANSFORMER
BFI	BREAKER FAILURE INITIATE
BOT	BOTTOM OF TRAY
C	CONDUIT
CC	CLOSE COIL
CDCS	CURRENT DIFFERENTIAL CUTOFF SWITCH
CL	CLOSE
CT	CURRENT TRANSFORMER
CU	COPPER
DIFF	DIFFERENTIAL
DPDT	DOUBLE POLE DOUBLE THROW
DTT	DIRECT TRANSFER TRIP
ET	ELM TO TURBINE ROOM
ETA	ELM TO TURBINE ROOM ALTERNATE
GCB	GAS CIRCUIT BREAKER
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
IND	INDICATION
INIT	INITIATE
ISC	AVAILABLE SHORT CIRCUIT CURRENT
LO	LOCKOUT
LOP	LOSS OF POTENTIAL
LOR	LOCKOUT RELAY
LTS	LIGHTS
MCOV	MAXIMUM CONTINUOUS OPERATING VOLTAGE
MCR	MANUAL CLOSE REQUEST
MO	MOTOR OPERATOR
MR	MULTI-RATIO
NGR	NEUTRAL GROUNDING RESISTOR
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
OC	OVERCURRENT
OPC	OPEN COIL
OSC	OSCILLOGRAPHY
PT	POTENTIAL TRANSFORMER
RCL	RECLOSE
RCV	RECEIVE
REM	REMOTE
SR	SINGLE RATIO
STAT	STATUS
SW	SWITCH
TB	TERMINAL BLOCK
TC	TRIP COIL
TR	TRIP
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VCB	VACUUM CIRCUIT BREAKER
XFMR	TRANSFORMER
2P	TWO POLE
3P	THREE POLE
4PDT	FOUR POLE DOUBLE THROW

PLAN SYMBOLS

- ELECTRIC MANHOLE
- PAD-MOUNTED SWITCH
- TRANSFORMER
- IT MANHOLE
- UNDERGROUND DUCTBANK
- ABOVEGROUND CONDUIT
- WOOD UTILITY POLE
- CONDUIT TURN DOWN
- CONDUIT TURN UP
- CONDUIT STUBUP
- GROUND ROD
- WELD CONNECTION
- JUNCTION BOX
- CABLE TO BE DEMOLISHED

CABLE TAGGING SYSTEM

C 002
- CABLE NUMBER
- CABLE SERVICE CLASS CODE

H - MEDIUM VOLTAGE AC POWER
S - 480V AC POWER
U - 120,208,240V AC POWER
B - DC BATTERY POWER
E - ESSENTIAL POWER (600V & BELOW) UPS SYSTEM
C - CONTROL
I - INSTRUMENTATION

XXXXX CABLE SCHEDULE DESIGNATION

no.	date	by	ckd	description
0	10/12/21	AAL	BGS	ISSUE FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION

STATE OF TEXAS — BRADLEY G. SHUFFIELD — 107733 — LICENSED — PROFESSIONAL ENGINEER — 10/12/21

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
06/08/2021	A. LEY
designed	checked
A. LEY	B. SHUFFIELD

UTSouthwestern Medical Center

DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

ELECTRICAL LEGEND AND ABBREVIATIONS

project 128993 | contract

drawing **E-001** — rev. **0**

sheet 1 of 1 sheets

file E-001.DWG

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no.	date	by	ckd	description
0	10/12/21	AAL	BGS	ISSUE FOR CONSTRUCTION

GENERAL NOTES

A. EXISTING CONDITIONS ARE SHOWN HALF-TONE AND ARE BASED ON SURVEYS, FIELD MEASUREMENTS, AND RECORD DRAWINGS BY OTHERS PROVIDED TO BURNS & MCDONNELL. NOT ALL EXISTING CONDITIONS MAY BE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS SHOWN PRIOR TO COMMENCEMENT OF WORK.
B. NEW ELECTRICAL WORK SHOWN BOLD UNLESS OTHERWISE NOTED.
C. CONTRACTOR SHALL COORDINATE ALL REQUIRED UTILITY SHUTDOWNS FOR UTILITY CONNECTIONS WITH THE CLIENT REPRESENTATIVE.
D. RE: EE600 FOR ONE-LINE DIAGRAM.

NOTES BY SYMBOL - BASE BID (#)

NO BASE BID WORK ON THIS SHEET

NOTES BY SYMBOL - ADD ALT #1 (#)

1. DEMOLISH EXISTING BUILDING V TRANSFORMER. EXISTING SECONDARY CIRCUITS TO REMAIN FOR RECONNECTION. PAD TO REMAIN.

ENLARGED SITE PLAN - BUILDING V

0 10' 20' 40'
SCALE IN FEET

NORTH

ISSUED FOR CONSTRUCTION

STATE OF TEXAS
BRADLEY G. SHUFFIELD
107733
LICENSED
PROFESSIONAL ENGINEER
10/12/21

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
06/16/2021	A. LEY
designed	checked
A. LEY	B. SHUFFIELD

UTSouthwestern Medical Center

DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

DEMOLITION SITE PLAN - BUILDING V

project	contract
128993	

drawing **ED400** – rev. **0**

sheet of sheets

file ED400.DWG

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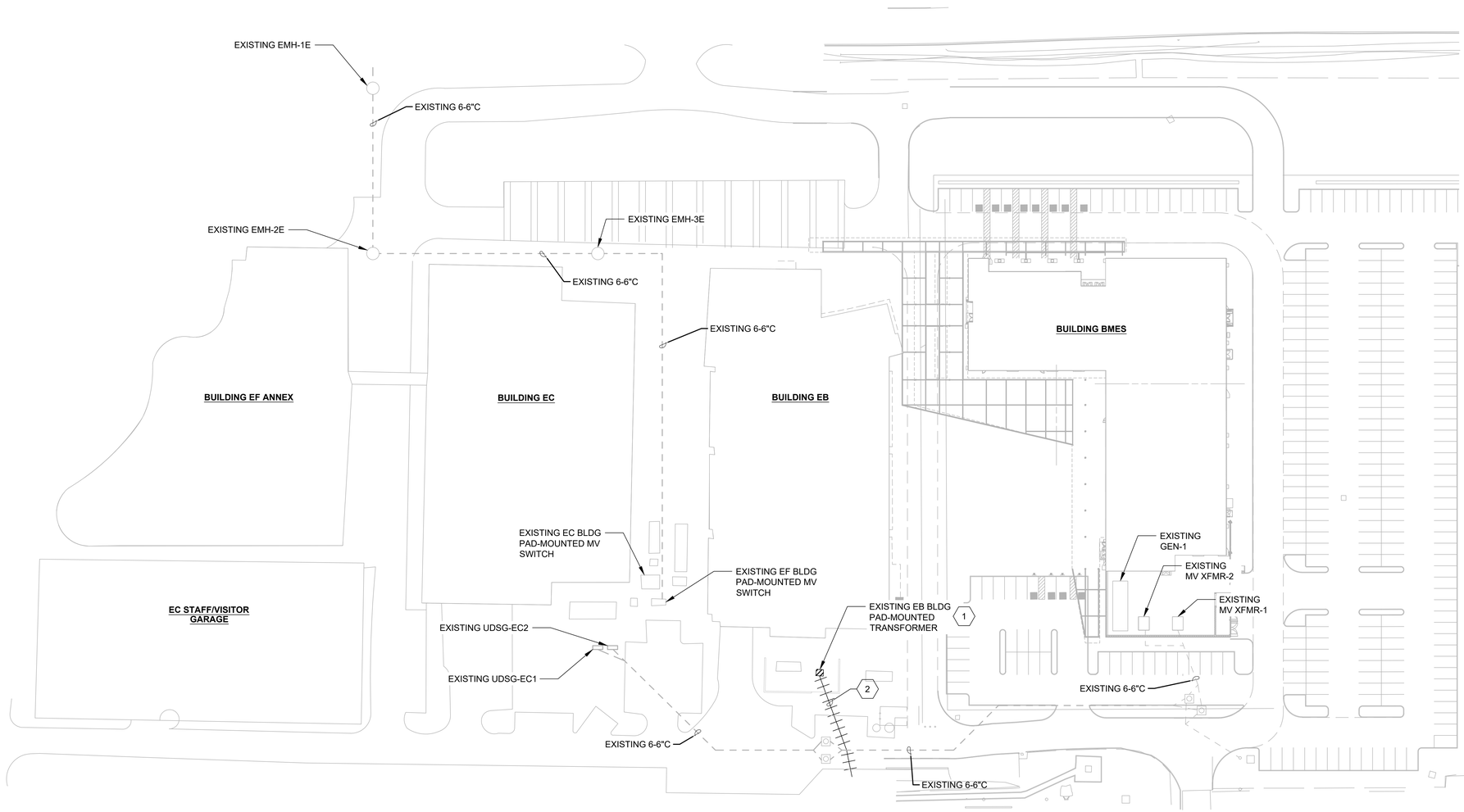

DEMOLITION SITE PLAN - EAST CAMPUS

0 20' 40' 80'
SCALE IN FEET

NORTH

GENERAL NOTES

A. EXISTING CONDITIONS ARE SHOWN HALF-TONE AND ARE BASED ON SURVEYS, FIELD MEASUREMENTS, AND RECORD DRAWINGS BY OTHERS PROVIDED TO BURNS & MCDONNELL. NOT ALL EXISTING CONDITIONS MAY BE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS SHOWN PRIOR TO COMMENCEMENT OF WORK.
B. NEW ELECTRICAL WORK SHOWN BOLD UNLESS OTHERWISE NOTED.
C. CONTRACTOR SHALL COORDINATE ALL REQUIRED UTILITY SHUTDOWNS FOR UTILITY CONNECTIONS WITH THE CLIENT REPRESENTATIVE.
D. EXISTING SURFACE REMOVAL REQUIRED FOR BELOW GRADE CONDUIT INSTALLATIONS SHALL BE RESTORED TO MATCH EXISTING CONDITIONS, INCLUDING THICKNESS, AND SECTION. RESTORATION MAY INCLUDE, BUT IS NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB AND GUTTER, AND SEEDING.
E. RE: EE600 FOR ONE-LINE DIAGRAM.

NOTES BY SYMBOL #

1. DEMOLISH EXISTING 2500kVA EB BUILDING PAD-MOUNTED TRANSFORMER AND PAD. EXISTING SECONDARY CIRCUITS TO REMAIN FOR RECONNECTION.
2. DEMOLISH EXISTING PRIMARY CABLE FROM EB BUILDING TRANSFORMER TO ONCOR FUSE CUTOUT TERMINATION ON UTILITY POLE. COORDINATE WORK WITH ONCOR.

no.	date	by	ckd	description
0	10/12/21	AAL	BGS	ISSUE FOR CONSTRUCTION

ISSUED FOR CONSTRUCTION

STATE OF TEXAS
BRADLEY G. SHUFFIELD
107733
LICENSED
PROFESSIONAL ENGINEER
10/12/21

BURNS McDONNELL
100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
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UTSouthwestern Medical Center
DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

DEMOLITION SITE PLAN - EAST CAMPUS

project 128993 | contract
drawing **ED401** – rev. **0**
sheet 1 of 1 sheets
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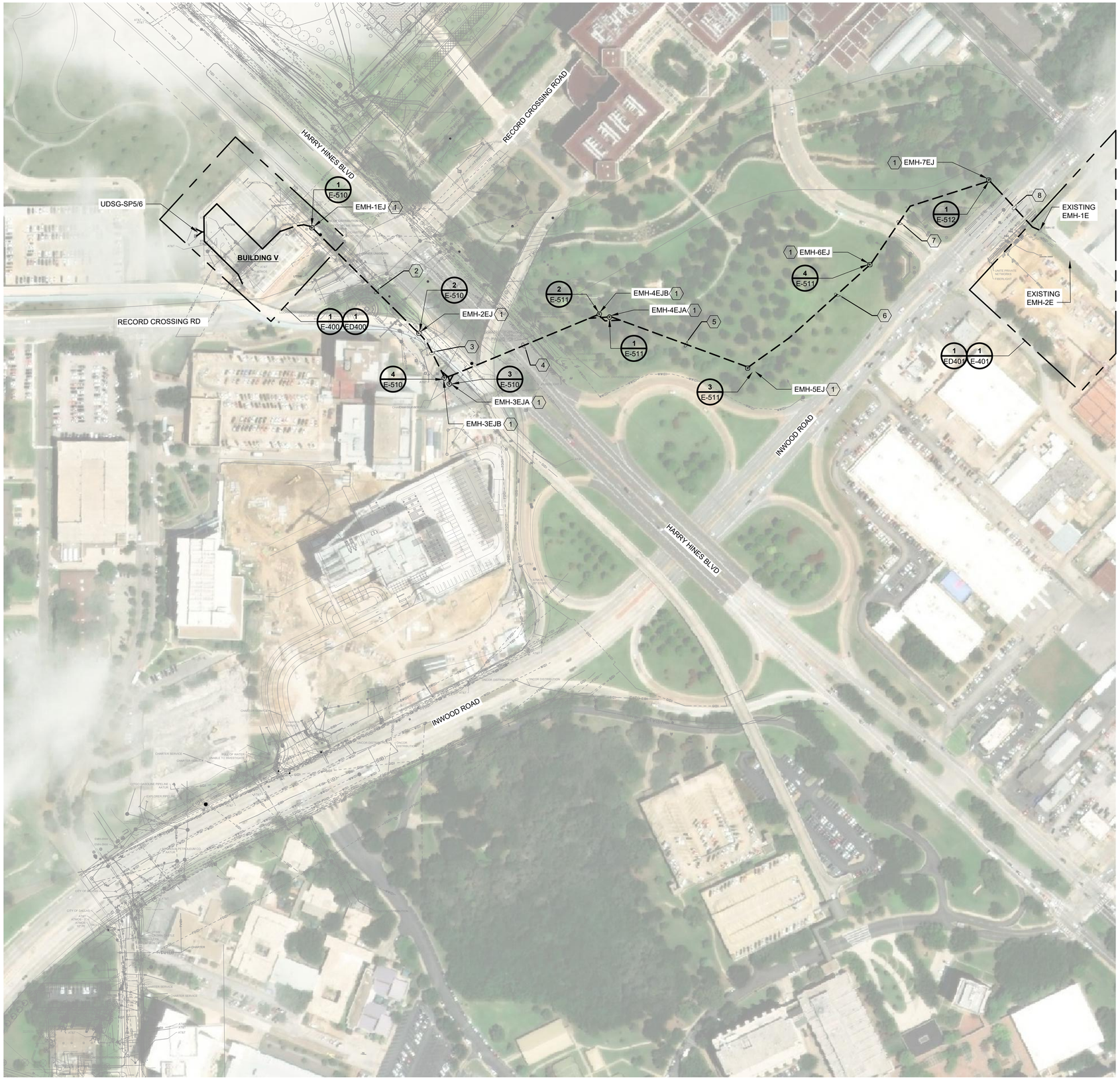

OVERALL SITE PLAN

0 100' 200'
SCALE IN FEET

NORTH

GENERAL NOTES

A. EXISTING CONDITIONS ARE SHOWN HALF-TONE AND ARE BASED ON SURVEYS, FIELD MEASUREMENTS, AND RECORD DRAWINGS BY OTHERS PROVIDED TO BURNS & MCDONNELL. NOT ALL EXISTING CONDITIONS MAY BE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS SHOWN PRIOR TO COMMENCEMENT OF WORK.
B. NEW ELECTRICAL WORK SHOWN BOLD UNLESS OTHERWISE NOTED.
C. CONTRACTOR SHALL COORDINATE ALL REQUIRED UTILITY SHUTDOWNS FOR UTILITY CONNECTIONS WITH THE CLIENT REPRESENTATIVE.
D. RE: EE600 FOR ONE-LINE DIAGRAM.
E. CONDUIT IN DUCTBANK TO BE EB20, SCHEDULE 40 PVC TO BE USED WHERE DIRECT BURIED, AND RGS CONDUIT TO BE USED ABOVEGRADE. RE: CIVIL DRAWINGS FOR CONDUIT IN TRENCHLESS CROSSINGS.
F. DUCTBANK CONDUIT BENDS TO BE EB20 OR FIBERGLASS WITH A MINIMUM 5' BEND RADIUS.

NOTES BY SYMBOL (#)

1. PROVIDE NEW ELECTRICAL MANHOLE. RE: 1/E-503 FOR MANHOLE DETAIL.
2. PROVIDE NEW FEEDERS S001 AND S002 IN NEW DUCTBANK FROM EMH-1EJ TO EMH-2EJ. RE: 1/E-501 FOR DUCTBANK DETAIL. RE: CIVIL DRAWINGS FOR TRENCHLESS CROSSING OF RECORD CROSSING RD.
3. PROVIDE NEW FEEDERS S001 AND S002 IN NEW DUCTBANK FROM EMH-2EJ TO EMH-3EJA AND EMH-4EJB. RE: 1/E-501 FOR DUCTBANK DETAIL.
4. PROVIDE NEW FEEDERS S001 AND S002 IN NEW DUCTBANK FROM EMH-3EJA AND EMH-3EJB TO EMH-4EJA AND EMH-4EJB. RE: 2/E-501 FOR DUCTBANK DETAIL. RE: CIVIL DRAWINGS FOR TRENCHLESS CROSSING OF HARRY HINES BLVD.
5. PROVIDE NEW FEEDERS S001 AND S002 IN NEW DUCTBANK FROM EMH-4EJA AND EMH-4EJB TO EMH-5EJ. RE: 1/E-501 FOR DUCTBANK DETAIL.
6. PROVIDE NEW FEEDERS S001 AND S002 IN NEW DUCTBANK FROM EMH-5EJ TO EMH-6EJ. RE: 1/E-501 FOR DUCTBANK DETAIL.
7. PROVIDE NEW FEEDERS S001 AND S002 IN NEW DUCTBANK FROM EMH-6EJ TO EMH-7EJ. RE: 1/E-501 FOR DUCTBANK DETAIL. RE: CIVIL DRAWINGS FOR TRENCHLESS CROSSING OF INWOOD RD.
8. PROVIDE NEW FEEDERS S001 AND S002 IN NEW DUCTBANK FROM EMH-7EJ TO EXISTING EMH-1E. RE: 1/E-501 FOR DUCTBANK DETAIL.

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PROFESSIONAL ENGINEER
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PHASE 1 - EAST CAMPUS DUCTBANK

OVERALL SITE PLAN

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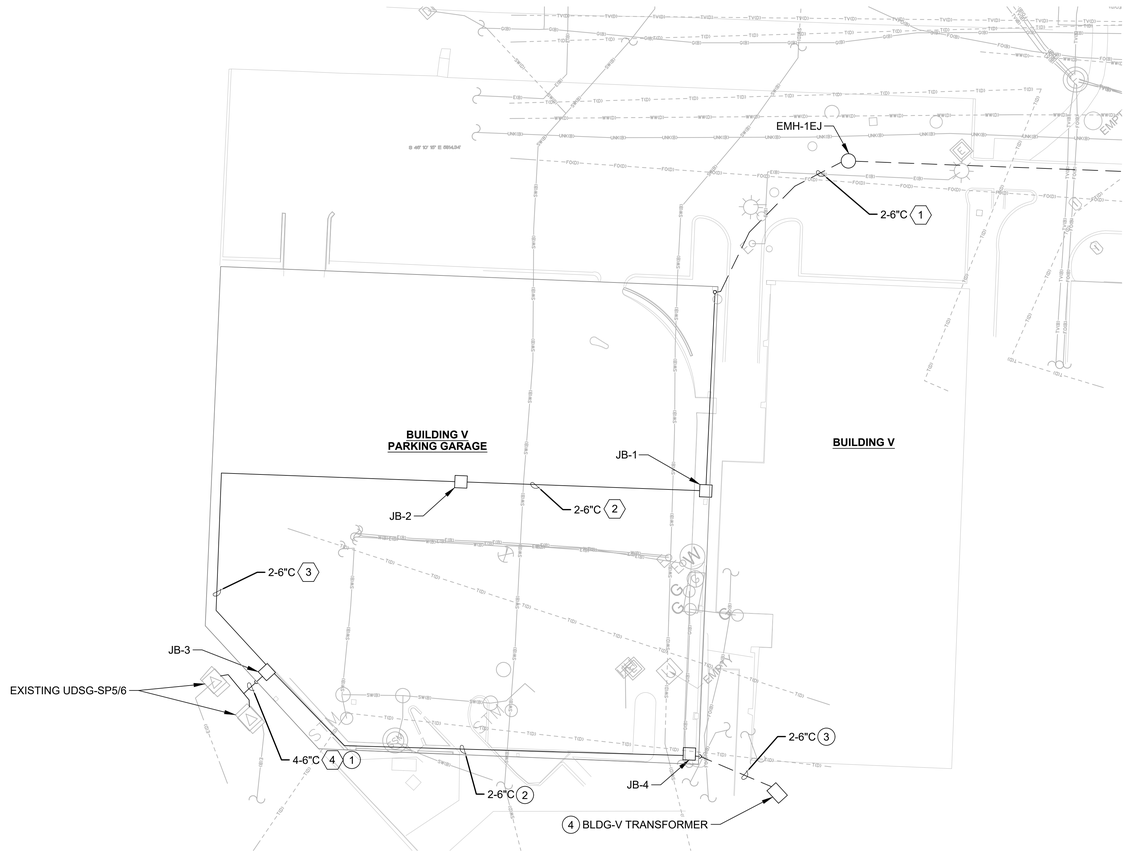
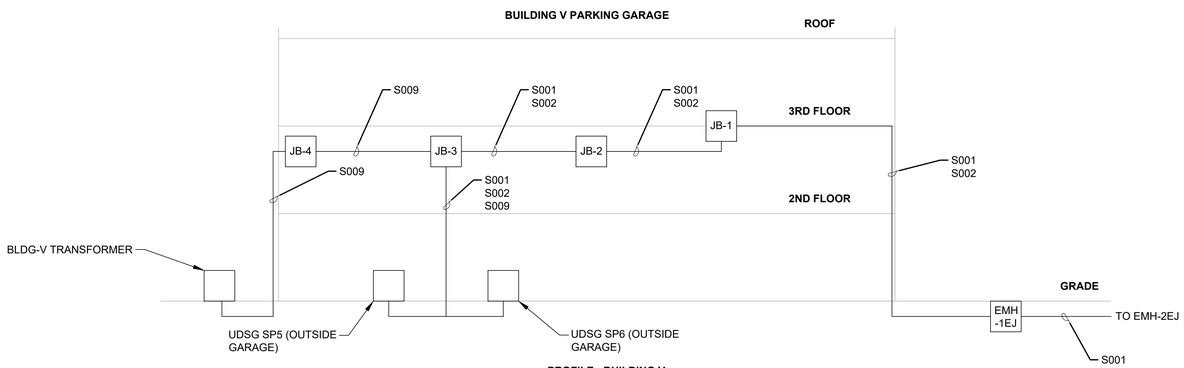


ENLARGED SITE PLAN - BUILDING V

0 10' 20' 40'
SCALE IN FEET

NORTH



PROFILE - BUILDING V (NTS)

NOTES:
1. PROFILE IS NOT A CROSS SECTION AND DOES NOT SHOW PHYSICAL ROUTING OF FEEDERS. IT IS ONLY INTENDED TO SHOW FLOOR OF INSTALLATION.

GENERAL NOTES

A. EXISTING CONDITIONS ARE SHOWN HALF-TONE AND ARE BASED ON SURVEYS, FIELD MEASUREMENTS, AND RECORD DRAWINGS BY OTHERS PROVIDED TO BURNS & MCDONNELL. NOT ALL EXISTING CONDITIONS MAY BE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS SHOWN PRIOR TO COMMENCEMENT OF WORK.
B. NEW ELECTRICAL WORK SHOWN BOLD UNLESS OTHERWISE NOTED.
C. CONTRACTOR SHALL COORDINATE ALL REQUIRED UTILITY SHUTDOWNS FOR UTILITY CONNECTIONS WITH THE CLIENT REPRESENTATIVE.
D. RE: EE600 FOR ONE-LINE DIAGRAM.
E. CONDUIT IN DUCTBANK TO BE EB20, SCHEDULE 40 PVC TO BE USED WHERE DIRECT BURIED, AND RGS CONDUIT TO BE USED ABOVEGRADE.
F. ABOVE-GRADE CONDUIT COLOR TO MATCH GARAGE.
G. CONTRACTOR TO SIZE JUNCTION BOXES PER NEC. INSTALL JUNCTION BOXES AND CONDUIT WHERE VEHICULAR TRAFFIC WILL NOT BE IMPEDED. IF A PARKING SPACE MUST BE USED, BOLLARDS SHALL BE INSTALLED.
H. DUCTBANK CONDUIT BENDS TO BE EB20 WITH A MINIMUM 5' BEND RADIUS.

NOTES BY SYMBOL - BASE BID (#)

1. PROVIDE NEW FEEDERS S001 AND S002 IN NEW DUCTBANK FROM EMH-1EJ TO PARKING GARAGE COLUMN. STUB UP ON SOUTHWEST SIDE OF COLUMN AND ROUTE ALONG 3RD FLOOR CONCRETE TO NEW JUNCTION BOX JB-1 MOUNTED ON 3RD FLOOR CONCRETE.
2. PROVIDE AND ROUTE NEW FEEDERS S001 AND S002 FROM NEW JUNCTION BOX JB-1 THROUGH 2ND FLOOR ROOF CHANNEL TO NEW JUNCTION BOX JB-2.
3. PROVIDE AND ROUTE NEW FEEDERS S001 AND S002 FROM NEW JUNCTION BOX JB-2 THROUGH 2ND FLOOR ROOF CHANNEL AND ALONG INSIDE EDGE OF GARAGE TO NEW JUNCTION BOX JB-3.
4. PROVIDE AND ROUTE NEW FEEDERS S001 AND S002 FROM JB-3 DOWN PARKING GARAGE COLUMN AND DIRECT BURY TO EXISTING VISTA SWITCHES UDSG-SP5 AND UDSG-SP6.

NOTES BY SYMBOL - ADD ALT #1 (#)

1. PROVIDE AND DIRECT BURY NEW FEEDER S009 FROM EXISTING VISTA SWITCH UDSG-SP5 AND ROUTE UP PARKING GARAGE WALL TO NEW JUNCTION BOX JB-3.
2. PROVIDE AND ROUTE NEW FEEDER S009 FROM JB-3 ALONG INSIDE EDGE OF PARKING GARAGE 2ND FLOOR CEILING TO NEW JUNCTION BOX JB-4.
3. PROVIDE AND ROUTE NEW FEEDER S009 FROM JB-4 DOWN PARKING GARAGE COLUMN AND DIRECT BURY TO EXISTING BUILDING V SERVICE TRANSFORMER.
4. PROVIDE NEW 1000kVA BLDG-V TRANSFORMER ON EXISTING PAD.

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PROFESSIONAL ENGINEER
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PHASE 1 - EAST CAMPUS DUCTBANK

ENLARGED SITE PLAN - BUILDING V

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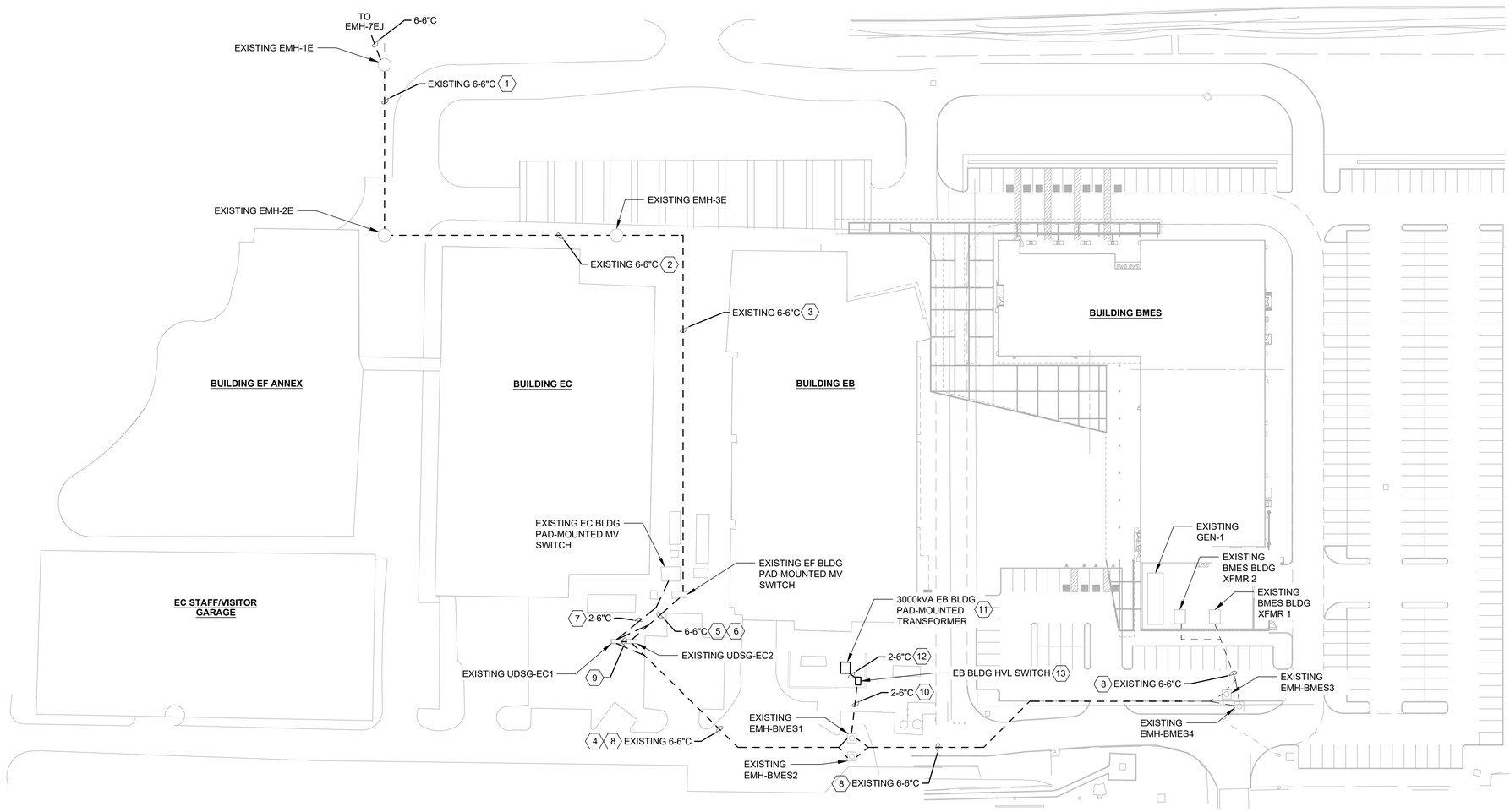

ENLARGED SITE PLAN - EAST CAMPUS

0 20' 40' 80'
SCALE IN FEET

NORTH

GENERAL NOTES

A. EXISTING CONDITIONS ARE SHOWN HALF-TONE AND ARE BASED ON SURVEYS, FIELD MEASUREMENTS, AND RECORD DRAWINGS BY OTHERS PROVIDED TO BURNS & MCDONNELL. NOT ALL EXISTING CONDITIONS MAY BE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS SHOWN PRIOR TO COMMENCEMENT OF WORK.
B. NEW ELECTRICAL WORK SHOWN BOLD UNLESS OTHERWISE NOTED.
C. CONTRACTOR SHALL COORDINATE ALL REQUIRED UTILITY SHUTDOWNS FOR UTILITY CONNECTIONS WITH THE CLIENT REPRESENTATIVE.
D. RE: EE600 FOR ONE-LINE DIAGRAM.
E. CONDUIT IN DUCTBANK TO BE EB20, SCHEDULE 40 PVC TO BE USED WHERE DIRECT BURIED, AND RGS CONDUIT TO BE USED ABOVEGRADE.
F. DUCTBANK CONDUIT BENDS TO BE EB20 OR FIBERGLASS WITH A MINIMUM 5' BEND RADIUS.
G. EXISTING SURFACE REMOVAL REQUIRED FOR BELOW GRADE CONDUIT INSTALLATIONS SHALL BE RESTORED TO MATCH EXISTING CONDITIONS, INCLUDING THICKNESS, AND SECTION. RESTORATION MAY INCLUDE, BUT IS NOT LIMITED TO, PAVEMENT, SIDEWALK, CURB AND GUTTER, AND SEEDING.

NOTES BY SYMBOL (#)

1. PROVIDE NEW CABLES S001 AND S002 IN EXISTING DUCTBANK FROM EXISTING EMH-1E TO EXISTING EMH-2E.
2. PROVIDE NEW CABLES S001 AND S002 IN EXISTING DUCTBANK FROM EXISTING EMH-2E TO EXISTING EMH-3E.
3. PROVIDE NEW CABLES S001 AND S002 IN EXISTING DUCTBANK FROM EXISTING EMH-3E TO EXISTING EF BUILDING PAD-MOUNTED MEDIUM VOLTAGE SWITCH.
4. PROVIDE NEW CABLE S005 IN EXISTING DUCTBANK FROM EXISTING VISTA SWITCH UDSG-EC1 TO EXISTING EMH-BMES1
5. INTERCEPT EXISTING CONDUIT IN EXISTING EF BUILDING PAD-MOUNTED MEDIUM VOLTAGE SWITCH VAULT AND PROVIDE NEW FEEDERS S001 AND S002 IN NEW DUCTBANK TO EXISTING VISTA SWITCHES UDSG-EC1 AND UDSG-EC2.
6. PROVIDE NEW FEEDER S007 IN NEW DUCTBANK FROM EXISTING VISTA SWITCH UDSG-EC2 TO EXISTING EF BUILDING PAD-MOUNTED MEDIUM VOLTAGE SWITCH.
7. PROVIDE NEW FEEDER S003 IN NEW DUCTBANK FROM EXISTING VISTA SWITCH UDSG-EC1 TO EXISTING EC BUILDING PAD-MOUNT MEDIUM VOLTAGE SWITCH.
8. PROVIDE NEW CABLES S004 AND S008 IN EXISTING DUCTBANK FROM EXISTING VISTA SWITCHES UDSG-EC1 AND UDSG-EC2 TO EXISTING BMES BUILDING XFMR 1 AND 2.
9. PROVIDE NEW FEEDER S006 IN NEW DUCTBANK FROM EXISTING VISTA SWITCH UDSG-EC1 TO EXISTING VISTA SWITCH UDSG-EC2 FOR TIE.
10. PROVIDE NEW FEEDER S005 IN NEW DUCTBANK FROM EXISTING EMH-BMES1 TO NEW EB BLDG HVL SWITCH.
11. PROVIDE NEW 3000kVA EB BLDG PAD-MOUNTED TRANSFORMER AND PAD. RE:1/E-504 FOR PAD DETAIL.
12. PROVIDE NEW FEEDER S010 IN NEW DUCTBANK FROM NEW EB BLDG HVL SWITCH TO NEW EB BLDG PAD-MOUNTED TRANSFORMER.
13. PROVIDE NEW NEMA 3R, 15kV, 600A FUSED HVL SWITCH AND PAD. RE: 2/E-504 FOR PAD DETAIL.

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PHASE 1 - EAST CAMPUS DUCTBANK

ENLARGED SITE PLAN - EAST CAMPUS

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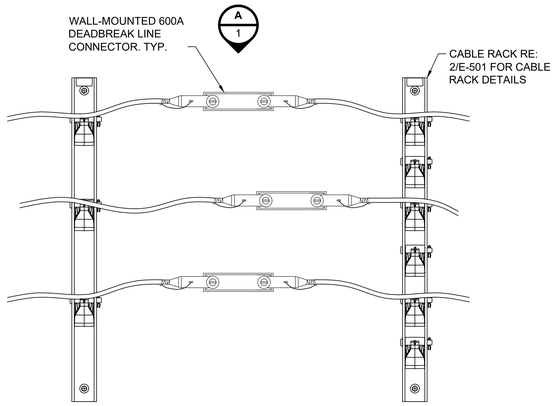
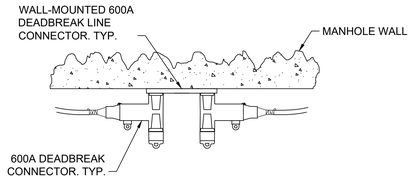


NOTES:

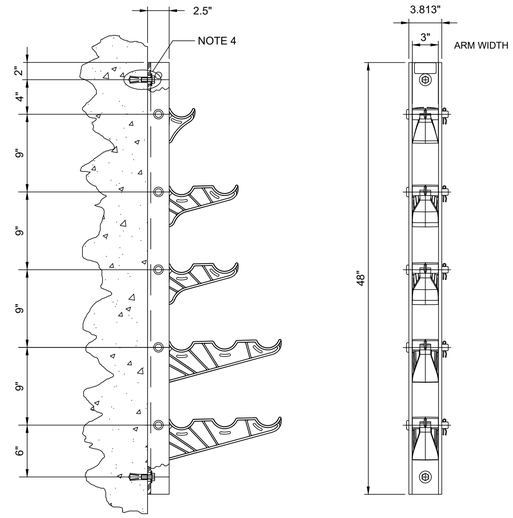
1. T-TAPPED ELBOWS ARE NOT ACCEPTABLE. SEE ONE-LINES FOR NUMBER OF INTERFACES.

MULTI-POINT JUNCTION DETAIL

DETAIL 1
NOT TO SCALE



SECTION A A/1
NOT TO SCALE

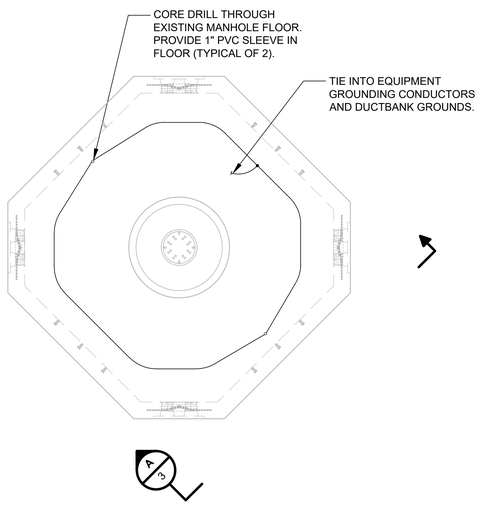


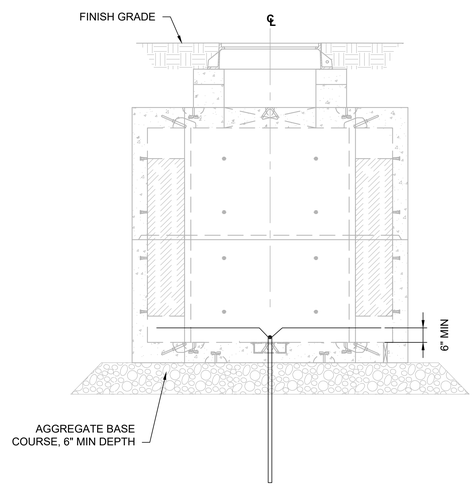
NOTES:

1. PROVIDE CABLE SUPPORTS AS NECESSARY PER NUMBER OF CABLES ROUTED ON WALL.
2. PROVIDE UNDERGROUND DEVICES CR12-B STANCHION, CR36-B STANCHION OR BOTH AND SERIES RA ARMS FOR INSTALLATION.
3. WHERE STANCHION IS REQUIRED FOR INSTALLATION, THE SURFACE OF THE CONCRETE WALL MUST BE SMOOTH, FLAT AND PLUMB.
4. REFER TO MANUFACTURER'S STANDARD DRAWING (UNDERGROUND DEVICES DRAWING NUMBER 90-3227) FOR CONCRETE WALL MOUNTING DETAIL.

TYPICAL CABLE RACK IN MANHOLE

DETAIL 2
NOT TO SCALE





SECTION A A/3
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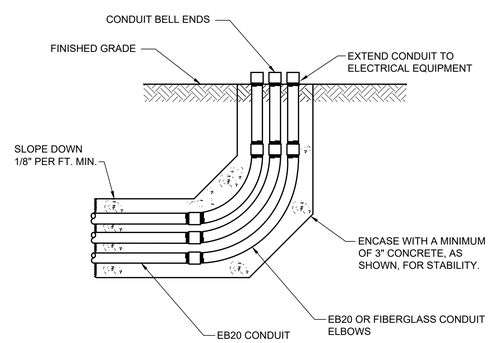

TYPICAL DUCTBANK STUB UP INTO EQUIPMENT

DETAIL 4
NOT TO SCALE

NOTES:

1. MANHOLE IS SHOWN FOR REFERENCE ONLY.
2. PROVIDE #4/0 AWG GROUND RING IN MANHOLE BONDED TO GROUND RODS AND DUCT BANK GROUND CONDUCTOR, IF PRESENT.
3. PROVIDE TWO GROUND RODS THROUGH 1" SLEEVED OPENINGS IN MANHOLE FLOOR.
4. PROVIDE GROUNDING FOR ALL METAL PARTS AS NECESSARY FOR MANHOLE GROUNDING. I.E. LADDERS, RACKS, SPLICES, ETC.

MANHOLE GROUNDING DETAIL

DETAIL 3
NOT TO SCALE

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10/12/21

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A. LEY	B. SHUFFIELD

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DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

ELECTRICAL DETAILS

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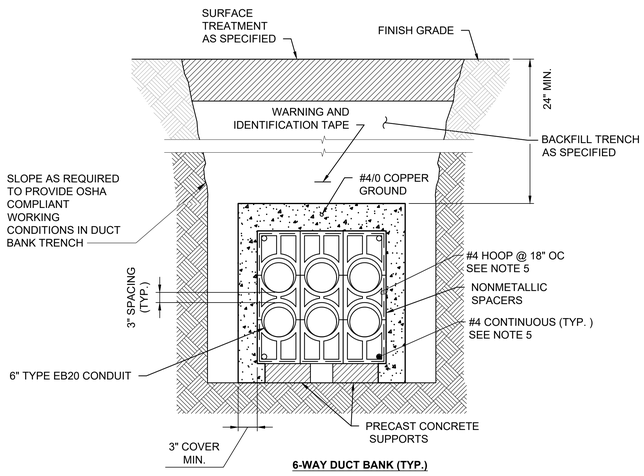
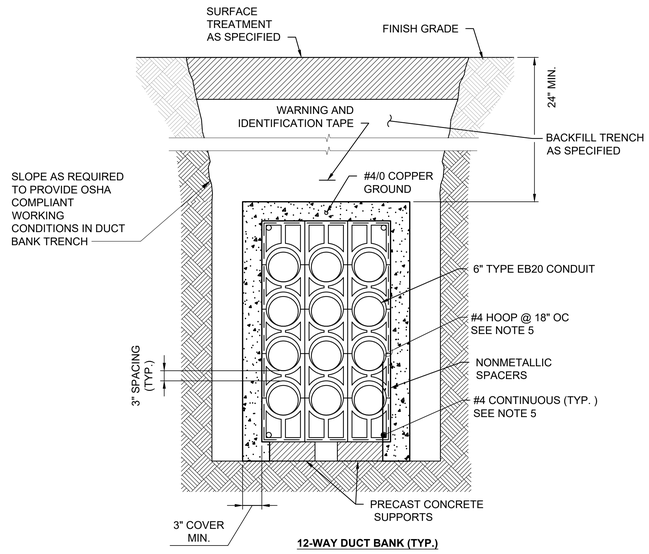
GENERAL NOTES:

1. DUCT BANKS MAY BE EARTH FORMED WITH UNDISTURBED EARTH PROVIDED THE EARTH WILL STAND TO A NEAR VERTICAL SLOPE. IF TRENCH IS OVER-EXCAVATED, COMPACT AS SPECIFIED.
2. REFER TO DUCT BANK SECTIONS FOR NUMBER, SIZE, CONFIGURATION & MATERIALS OF CONDUIT.
3. DO NOT ALLOW REINFORCING STEEL TO BE IN CONTACT WITH CONDUIT & PROVIDE MINIMUM OF 3" CONCRETE COVER OVER REINFORCING STEEL.
4. ALL DUCT BANKS ARE TO BE ENCLOSED IN CONCRETE PER SPECIFICATIONS AND SHALL BE SMOOTH FORMED A MINIMUM OF 2'-6" FROM TOP OF STUB UPS.
5. REINFORCEMENT FOR ROADWAY CROSSINGS.



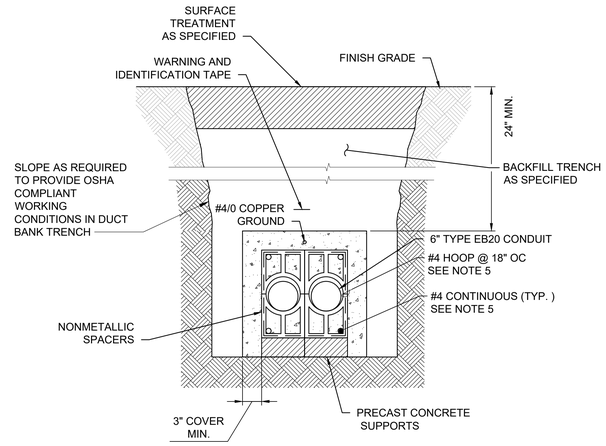
6-WAY DUCT BANK (TYP.)

CONCRETE ENCASED DUCTBANK SECTION 1



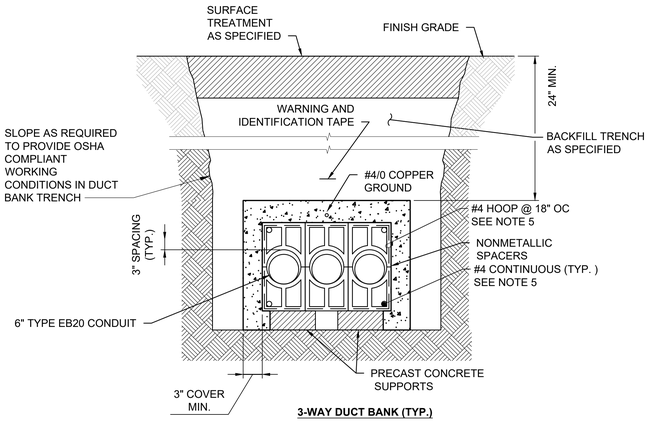
12-WAY DUCT BANK (TYP.)

CONCRETE ENCASED DUCTBANK SECTION 2



2-WAY DUCT BANK (TYP.)

CONCRETE ENCASED DUCTBANK SECTION 3



3-WAY DUCT BANK (TYP.)

CONCRETE ENCASED DUCTBANK SECTION 4

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PHASE 1 - EAST CAMPUS DUCTBANK

ELECTRICAL DETAILS

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Scale For Microfilming: Millimeters / Inches

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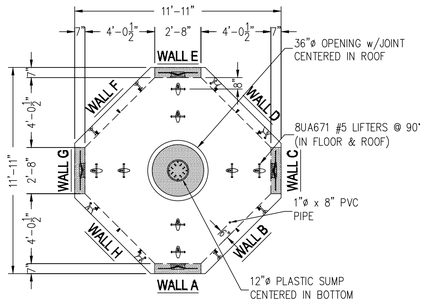
GENERAL NOTES:

1. PROVIDE OLDCASTLE 4 WAY 10'-9" x 10'-9" x 8'-0" OCTAGONAL MANHOLE OR APPROVED EQUAL.

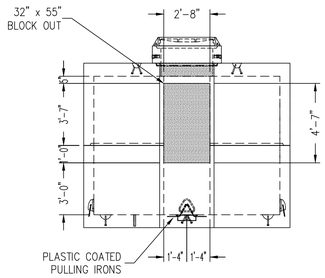
2. REFER TO MANHOLE BUTTERFLIES FOR CONDUIT ARRANGEMENTS.

3. MANHOLE SHALL MEET DESIGN LOADINGS LISTED BELOW:
   - 3.1. AXLE LOAD: HS-20 WITH IMPACT
   - 3.2. WHEEL LOAD: 16 Kips
   - 3.3. SOIL WEIGHT WET: 120 Pcf.
   - 3.4. EQUIVALENT SOIL FLUID PRESSURE: 105 Pcf.
   - 3.5. LATERAL LIVE LOAD SURCHAGE (FROM GRADE TO 8 FT): 80 Psf. OR HS-20 WITH IMPACT (WHICHEVER GOVERNS)
   - 3.6. SOIL COVER: MIN=1FT, MAX=4FT
   - 3.7. REFER TO SPECIFICATION 260543 FOR BUOYANCY REQUIREMENTS DUE TO WATER TABLE.



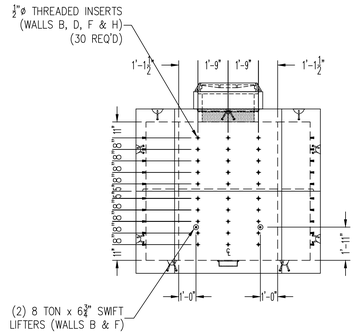
NECK EXTENSIONS, RING AND COVER NOT SHOWN

MANHOLE PLAN VIEW 1/1



WALLS C, E, G MIRROR IMAGES OF WALL A

MANHOLE WALL A A/1



WALLS D, F, H MIRROR IMAGES OF WALL B

MANHOLE WALL B B/1

ISSUED FOR CONSTRUCTION

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BRADLEY G. SHUFFIELD
107733
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PROFESSIONAL ENGINEER
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BURNS McDONNELL

100 ENERGY WAY SUITE 1900
FORT WORTH, TX 76102
P. 817-337-0361
TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
06/08/2021	A. LEY
designed	checked
A. LEY	B. SHUFFIELD

UTSouthwestern Medical Center

DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

ELECTRICAL DETAILS

project	contract
128993	

drawing **E-503** – rev. **0**

sheet 1 of 1 sheets

file E-503.DWG

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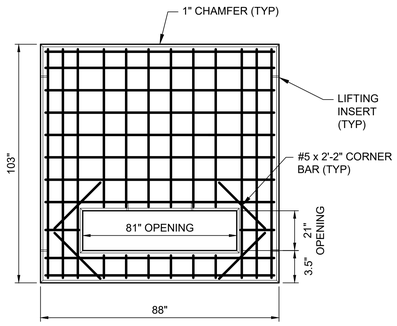
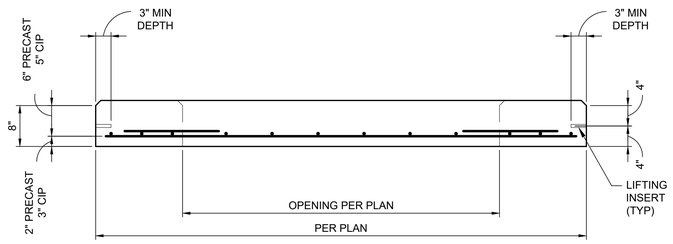


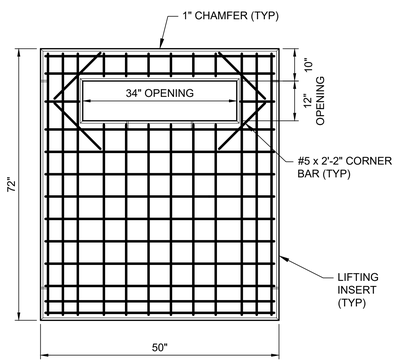
3000kVA TRANSFORMER

NOTES:
1. INSTALL A PRECAST OR CAST IN PLACE TRANSFORMER PAD TO CONFORM TO UNDERWRITER'S AND LOCAL BUILDING CODE AND AS SHOWN.
2. COORDINATE DIMENSIONS WITH TRANSFORMER.

TRANSFORMER PAD TOP VIEW (NOT TO SCALE) 1



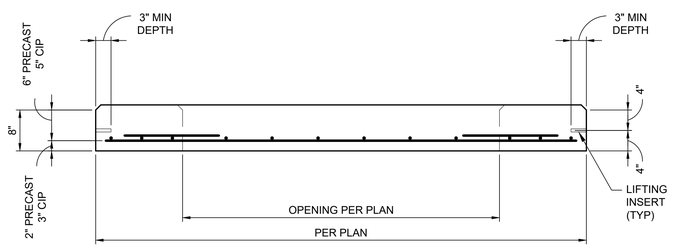
TRANSFORMER PAD SIDE VIEW (NOT TO SCALE) A 1



15kV METAL ENCLOSED SWITCH

NOTES:
1. INSTALL A PRECAST OR CAST IN PLACE SWITCH PAD TO CONFORM TO UNDERWRITER'S AND LOCAL BUILDING CODE AND AS SHOWN.
2. COORDINATE DIMENSIONS WITH SWITCH.

SWITCH PAD TOP VIEW (NOT TO SCALE) 2



SWITCH PAD SIDE VIEW (NOT TO SCALE) A 2

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designed	checked
A. LEY	B. SHUFFIELD

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ELECTRICAL DETAILS

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sheet 1 of 1 sheets

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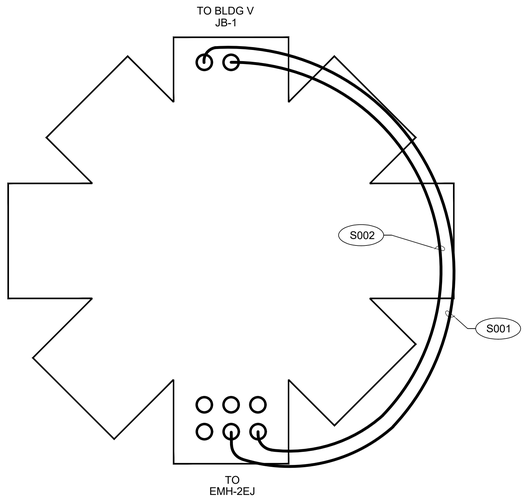
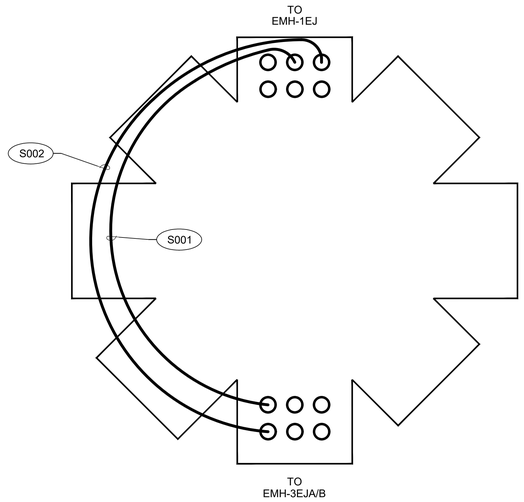


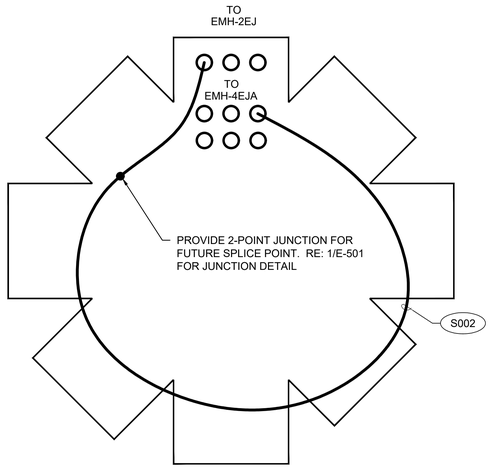
EMH-1EJ

DETAIL 1
NOT TO SCALE



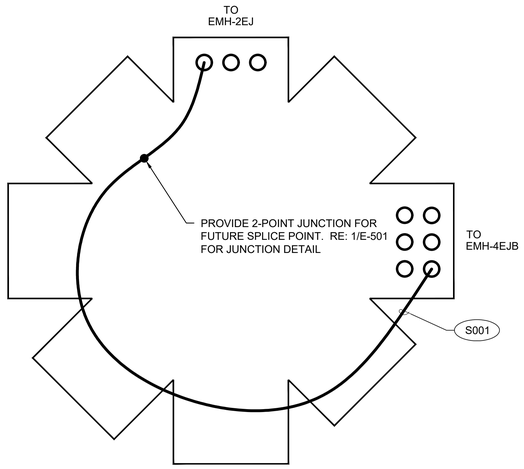
EMH-2EJ

DETAIL 2
NOT TO SCALE



EMH-3EJA

DETAIL 3
NOT TO SCALE



EMH-3EJB

DETAIL 4
NOT TO SCALE

GENERAL NOTES

A. EXISTING UTILITIES SHOWN HALF-TONE. NEW WORK SHOWN BOLD.
B. PROVIDE TWO CABLE RACKS PER MANHOLE WALL REQUIRING CABLE ROUTING. PROVIDE SUPPORTS AS NEEDED PER NUMBER OF CABLES ROUTED ON WALL. PROVIDE SURFACE STANCHION MOUNTS FOR CABLE RACKS AS REQUIRED PER DETAIL 2 ON E-501.
C. PROVIDE GROUND RODS AND GROUNDING LOOPS IN ALL MANHOLES PER DETAIL 3 ON E-501.
D. MAINTAIN 18" OF SEPARATION BETWEEN MEDIUM VOLTAGE FEEDERS IN MANHOLES.

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0	10/12/21	AAL	BGS	ISSUE FOR CONSTRUCTION

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PHASE 1 - EAST CAMPUS DUCTBANK

MANHOLE BUTTERFLIES

project 128993 | contract
drawing **E-510** | rev. **0**
sheet 1 of 1 sheets
file E-510.DWG

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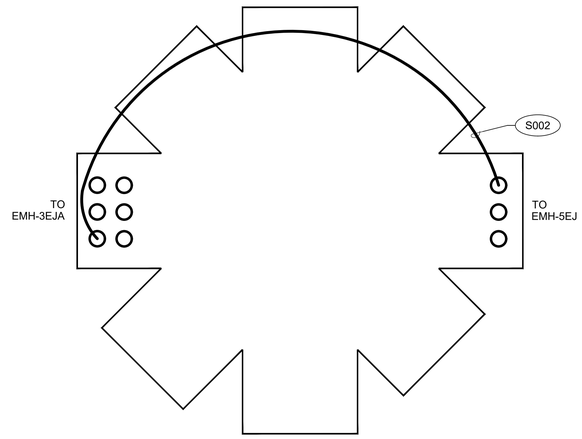
GENERAL NOTES

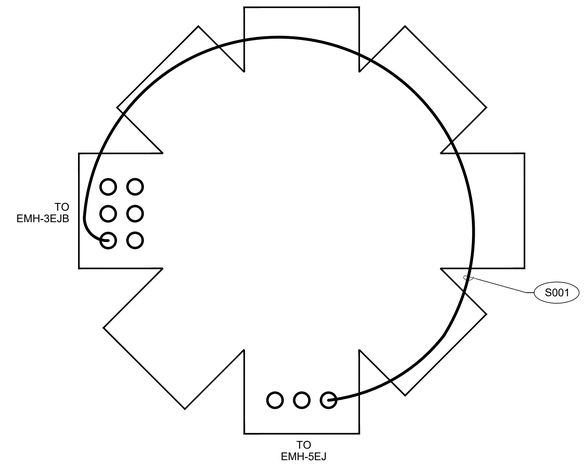
A. EXISTING UTILITIES SHOWN HALF-TONE. NEW WORK SHOWN BOLD.
B. PROVIDE TWO CABLE RACKS PER MANHOLE WALL REQUIRING CABLE ROUTING. PROVIDE SUPPORTS AS NEEDED PER NUMBER OF CABLES ROUTED ON WALL. PROVIDE SURFACE STANCHION MOUNTS FOR CABLE RACKS AS REQUIRED PER DETAIL 2 ON E-501.
C. PROVIDE GROUND RODS AND GROUNDING LOOPS IN ALL MANHOLES PER DETAIL 3 ON E-501.
D. MAINTAIN 18" OF SEPARATION BETWEEN MEDIUM VOLTAGE FEEDERS IN MANHOLES.



EMH-4EJA

DETAIL 1
NOT TO SCALE

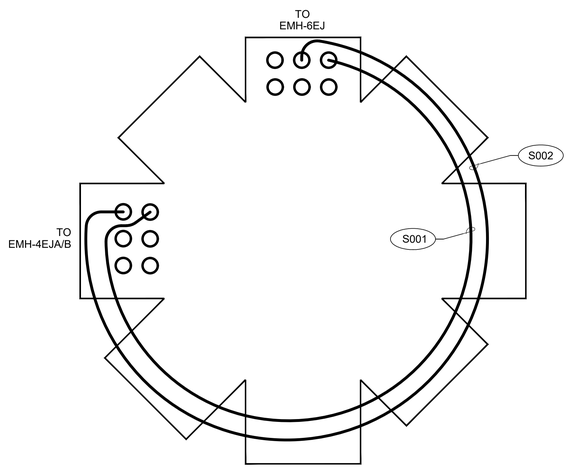
NORTH



EMH-4EJB

DETAIL 2
NOT TO SCALE

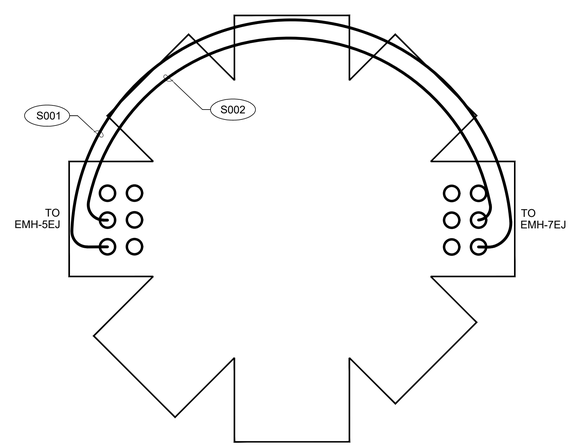
NORTH



EMH-5EJ

DETAIL 3
NOT TO SCALE

NORTH



EMH-6EJ

DETAIL 4
NOT TO SCALE

NORTH

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A. LEY	B. SHUFFIELD

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PHASE 1 - EAST CAMPUS DUCTBANK

MANHOLE BUTTERFLIES

project 128993 | contract

drawing **E-511** – rev. **0**

sheet 1 of 1 sheets

file E-511.DWG

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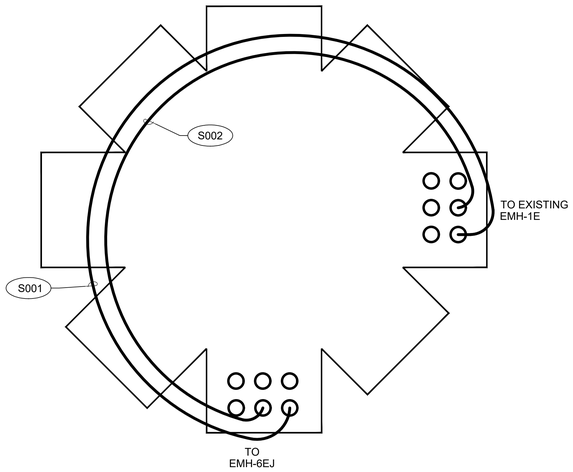

EMH-7EJ

DETAIL 1

NOT TO SCALE

NORTH

GENERAL NOTES

A. EXISTING UTILITIES SHOWN HALF-TONE. NEW WORK SHOWN BOLD.
B. PROVIDE TWO CABLE RACKS PER MANHOLE WALL REQUIRING CABLE ROUTING. PROVIDE SUPPORTS AS NEEDED PER NUMBER OF CABLES ROUTED ON WALL. PROVIDE SURFACE STANCHION MOUNTS FOR CABLE RACKS AS REQUIRED PER DETAIL 2 ON E-501.
C. PROVIDE GROUND RODS AND GROUNDING LOOPS IN ALL MANHOLES PER DETAIL 3 ON E-501.
D. MAINTAIN 18" OF SEPARATION BETWEEN MEDIUM VOLTAGE FEEDERS IN MANHOLES.

no.	date	by	ckd	description
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FORT WORTH, TX 76102
P. 817-337-0361
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06/08/2021	A. LEY
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A. LEY	B. SHUFFIELD

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DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

MANHOLE BUTTERFLIES

project 128993 | contract

drawing **E-512** – rev. **0**

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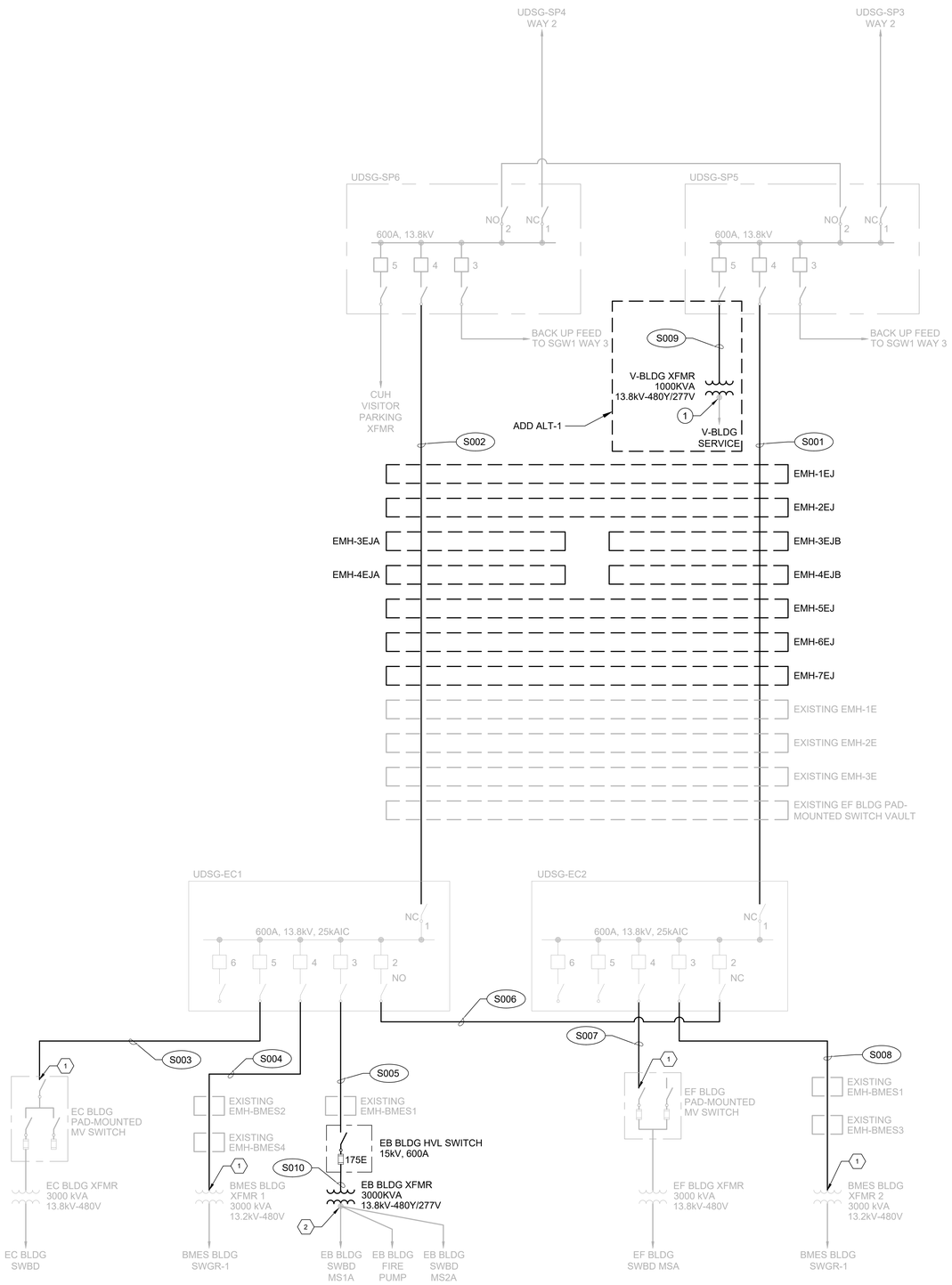

GENERAL NOTES

A. EXISTING CONDITIONS ARE SHOWN HALF-TONE AND ARE BASED ON SURVEYS, FIELD MEASUREMENTS, AND RECORD DRAWINGS BY OTHERS PROVIDED TO BURNS & MCDONNELL. NOT ALL EXISTING CONDITIONS MAY BE SHOWN. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS SHOWN PRIOR TO COMMENCEMENT OF WORK.
B. NEW ELECTRICAL WORK SHOWN BOLD UNLESS OTHERWISE NOTED.
C. CONTRACTOR SHALL COORDINATE ALL REQUIRED UTILITY SHUTDOWNS FOR UTILITY CONNECTIONS WITH THE CLIENT REPRESENTATIVE. EXISTING BUILDING GENERATORS TO BE USED FOR BUILDING POWER DURING SHUTDOWNS.
D. RE: EE700 FOR CABLE SCHEDULE.

NOTES BY SYMBOL (#)

1. EXISTING UTILITY CONNECTION TO BE DISCONNECTED FOR TERMINATION OF NEW FEEDER.
2. RECONNECT EXISTING EB BUILDING FEEDERS.

NOTES BY SYMBOL - ADD ALT #1 (#)

1. RECONNECT EXISTING V-BLDG FEEDERS.

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DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

ONE-LINE DIAGRAM

project	contract
128993	

drawing **EE600** — rev. **0**

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file EE600.DWG

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GENERAL NOTES

A. RE: EE600 FOR ONE-LINE DIAGRAM.

CABLE SCHEDULE
BURNS & MCDONNELL ENGINEERING
UT SOUTHWESTERN MEDICAL CENTER
PHASE 1 - EAST CAMPUS DUCTBANK

Cable Number	From	Description	To	Description	Cable	Notes
S001	UDSG-SP5	VISTA SWITCH SP5	UDSG-EC2	VISTA SWITCH EC2	3-1/C 1000 KCMIL (CU) MV 105, #1/0 (600V) GND	
S002	UDSG-SP6	VISTA SWITCH SP6	UDSG-EC1	VISTA SWITCH EC1	3-1/C 1000 KCMIL (CU) MV 105, #1/0 (600V) GND	
S003	UDSG-EC1	VISTA SWITCH EC1	EC MVS	EC BLDG MV SWITCH	3-1/C 2/0 (CU) MV 105, #1 (600V) GND	
S004	UDSG-EC1	VISTA SWITCH EC1	BMES XFMR 1	BMES BLDG TRANSFORMER 1	3-1/C 2/0 (CU) MV 105, #1 (600V) GND	
S005	UDSG-EC1	VISTA SWITCH EC1	EB SWITCH	EB BLDG HVL SWITCH	3-1/C 2/0 (CU) MV 105, #1 (600V) GND	
S006	UDSG-EC1	VISTA SWITCH EC1	UDSG-EC2	VISTA SWITCH EC2	3-1/C 1000 KCMIL (CU) MV 105, #1 (600V) GND	
S007	UDSG-EC2	VISTA SWITCH EC2	EF MVS	EF BLDG MV SWITCH	3-1/C 2/0 (CU) MV 105, #1 (600V) GND	
S008	UDSG-EC2	VISTA SWITCH EC2	BMES XFMR 2	BMES BLDG TRANSFORMER 2	3-1/C 2/0 (CU) MV 105, #1 (600V) GND	
S009	UDSG-SP5	VISTA SWITCH SP5	V-BLDG XFMR	V-BLDG TRANSFORMER	3-1/C 2/0 (CU) MV 105, #1 (600V) GND	ADD ALTERNATE #1
S010	EB SWITCH	EB BLDG HVL SWITCH	EB BLDG XFMR	EB BLDG TRANSFORMER	3-1/C 2/0 (CU) MV 105, #1 (600V) GND	

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TEXAS REGISTERED ENGINEERING FIRM F-845

date	detailed
06/08/2021	A. LEY
designed	checked
A. LEY	B. SHUFFIELD

UTSouthwestern Medical Center

DALLAS, TEXAS

PHASE 1 - EAST CAMPUS DUCTBANK

CABLE SCHEDULE

project	contract
128993	

drawing **EE700** — rev. **0**

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file EE700.DWG

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