

STATE OF OHIO  
DEPARTMENT OF TRANSPORTATION

# DO6-VAR-HAR

## FRANKLIN AND DELAWARE COUNTIES

**PROJECT DESCRIPTION**

INSTALLATION OF 3 NEW HIGHWAY ADVISORY RADIOS (HAR) AND INTEGRATION WITH 3 EXISTING HAR IN THE COLUMBUS METROPOLITAN FREEWAY MANAGEMENT SYSTEM.

PROJECT EARTH DISTURBED AREA: N/A  
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: N/A  
NOTICE OF INTENT EARTH DISTURBED AREA: N/A

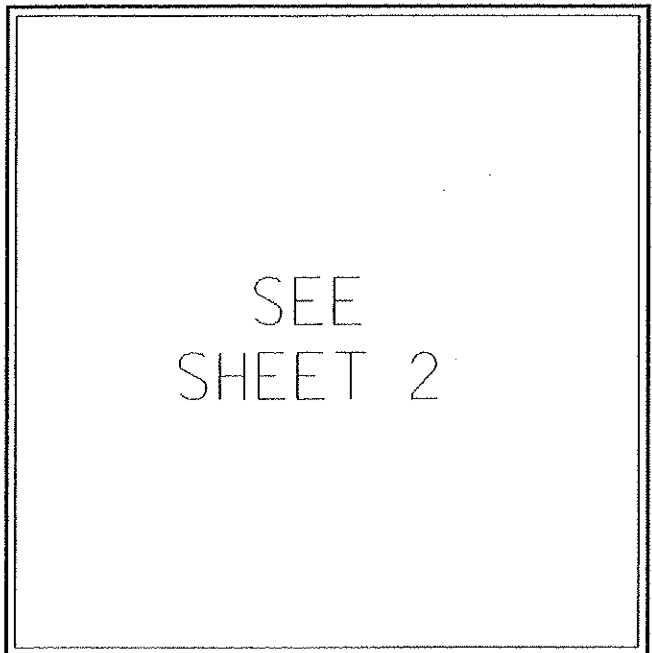
**LIMITED ACCESS**

THIS IMPROVEMENT IS ESPECIALLY DESIGNED FOR THROUGH TRAFFIC AND HAS BEEN DECLARED A LIMITED ACCESS HIGHWAY OR FREEWAY BY ACTION OF THE DIRECTOR IN ACCORDANCE WITH THE PROVISIONS OF SECTION 5511.02 OF THE OHIO REVISED CODE.

**2010 SPECIFICATIONS**

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

I HEREBY APPROVED THESE PLANS AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL NOT REQUIRE THE CLOSING TO TRAFFIC OF THE HIGHWAY AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THE PLANS AND ESTIMATES.



LOCATION MAP

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**DESIGN EXCEPTIONS**

NONE REQUIRED

**UNDERGROUND UTILITIES**  
CONTACT BOTH SERVICES  
CALL TWO WORKING DAYS  
**BEFORE YOU DIG**

CALL  
**1-800-362-2764**  
(TOLL FREE)

OHIO UTILITIES PROTECTION SERVICE  
NON-MEMBERS  
MUST BE CALLED DIRECTLY

OIL & GAS PRODUCERS PROTECTIVE  
SERVICE CALL: **1-800-925-0988**

PLAN PREPARED BY:  
OHIO DEPARTMENT OF TRANSPORTATION  
OFFICE OF TRAFFIC ENGINEERING  
1980 W. BROAD STREET  
COLUMBUS, OHIO 43223

ENGINEERS SEAL:	STANDARD CONSTRUCTION DRAWINGS				SUPPLEMENTAL SPECIFICATIONS	
<p>SIGNED: <i>Jason M. Yeray</i> P.E. DATE: 7/22/11</p>	DM-4.4	4/17/09			800-2010	7/15/11
	HL-30.11	10/16/09			832	5/6/09
	HL-30.21	1/19/07				
	HL-30.22	4/17/09				
	HL-40.10	1/19/07				
	HL-40.20	1/19/07				
	HL-50.11	1/19/07				
	MT-35.10	4/20/01				
	MT-95.30	7/17/09				
	MT-95.31	7/17/09				
	MT-105.10	1/16/09				

**SPECIAL PROVISIONS**  
HIGHWAY ADVISORY RADIO 6/9/11

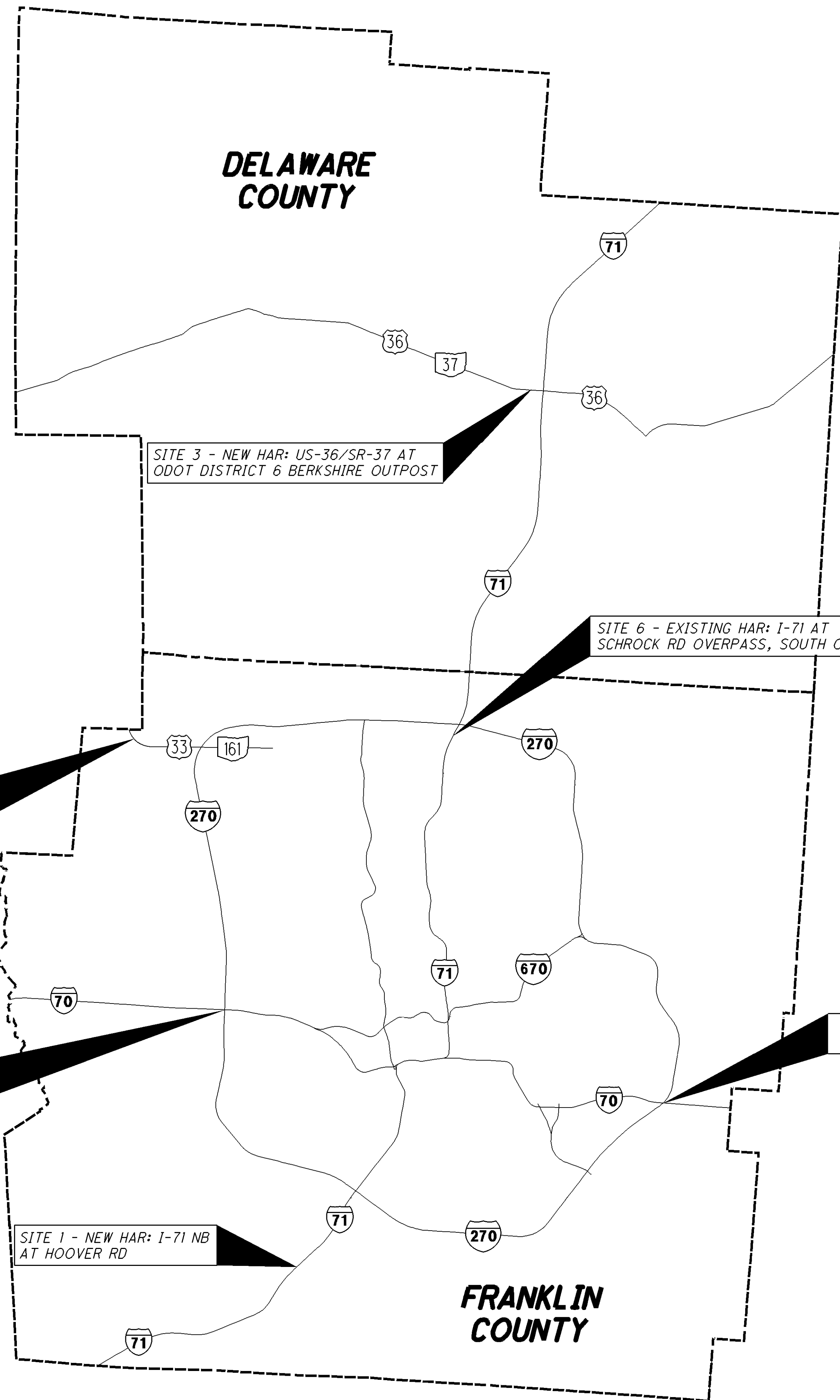
APPROVED: *[Signature]*  
DATE: 7-29-11 DISTRICT DEPUTY DIRECTOR

APPROVED: \_\_\_\_\_  
DATE: \_\_\_\_\_ DIRECTOR, DEPARTMENT OF TRANSPORTATION

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FEDERAL PROJECT NO.	NONE
FID NO.	91409
CONSTRUCTION PROJECT NO.	
RAILROAD INVOLVEMENT	NONE
<b>DO6-VAR-HAR</b>	
1/11	

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HAR FLASHING BEACON SIGN LOCATIONS					
ROAD	SIDE / DIRECTION OF TRAFFIC	MILE MARKER (SLM)	LATITUDE	LONGITUDE	LOCATION DESCRIPTION
I-270	NB	13.1	40.040325	-83.125431	I-270 NB, NORTH OF CEMETERY RD
I-71	NB	91.7	39.813782	-83.184976	I-71 NB, SOUTH OF US-62/SR-3
I-71	SB	105.0	39.933624	-83.010406	I-71 SB, SOUTH OF GREENLAWN AVE
I-71	SB	129.8	40.255169	-82.92878	I-71 SB, SOUTH OF US-36/SR-37
I-71	SB	136.6	40.338952	-82.879161	I-71 SB, NORTH OF CR-65/KILBOURNE RD
US-23	NB	79.6	39.821404	-83.000295	US-23 NB, SOUTH OF LONDON GROVEPORT RD
US-33	EB	102.1	40.154857	-83.224053	US-33 EB, EAST OF US-42
SR-315	SB	14.1	40.139349	-83.038609	SR-315 SB, SOUTH OF MANNING PARKWAY



NOT TO SCALE

LOCATION MAP

D06 - VAR - HAR

LATITUDE: 40° 05' 07" LONGITUDE: 82° 59' 15"

**WORK LIMITS**

THE WORK LIMITS SHOWN ON THESE PLANS ARE FOR PHYSICAL CONSTRUCTION ONLY. THE INSTALLATION AND OPERATION OF ALL TEMPORARY TRAFFIC CONTROL AND TEMPORARY TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS SHALL BE PROVIDED BY THE CONTRACTOR WHETHER INSIDE OR OUTSIDE THESE WORK LIMITS.

**NOTIFICATION OF CONSTRUCTION INITIATION**

AT LEAST FOURTEEN DAYS PRIOR TO ANY CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL ADVISE THE DISTRICT OFFICE OF COMMUNICATIONS VIA EMAIL AT D06.PIO@DOT.STATE.OH.US AND THE DISTRICT WORK ZONE TRAFFIC MANAGER VIA EMAIL AT D06.MOT@DOT.STATE.OH.US OF THE ANTICIPATED START DATE OF ANY CONSTRUCTION ACTIVITIES, INCLUDING BUT NOT LIMITED TO THE PLACING OF WORK ZONE SIGNS. THE NOTIFICATION SHALL ALSO INCLUDE THE PROJECT NUMBER, PID, NAME AND PHONE NUMBER OF THE CONTRACTOR, A POINT OF CONTACT AND THE ANTICIPATED IMPACT ON TRAFFIC. THE CONTRACTOR WILL IMMEDIATELY INFORM THE DISTRICT OFFICE OF COMMUNICATIONS AND THE DISTRICT WORK ZONE TRAFFIC MANAGER OF ANY AND ALL DELAYS AND/OR CHANGES REGARDING THE CONSTRUCTION INITIATION DATE

**SEEDING AND MULCHING**

THE FOLLOWING QUANTITIES ARE PROVIDED TO PROMOTE GROWTH AND CARE OF PERMANENT SEEDED AREAS:

- 659, TOPSOIL 46 CU. YD.
- 659, SEEDING AND MULCHING 416 SQ. YD.
- 659, COMMERCIAL FERTILIZER 0.06 TON
- 659, WATER 2 M. GAL.

SEEDING AND MULCHING SHALL BE APPLIED TO ALL AREAS OF EXPOSED SOIL BETWEEN THE RIGHT-OF-WAY LINES, AND WITHIN THE CONSTRUCTION LIMITS FOR AREAS OUTSIDE THE RIGHT-OF-WAY LINES COVERED BY WORK AGREEMENT OR SLOPE EASEMENT. QUANTITY CALCULATIONS FOR SEEDING AND MULCHING ARE BASED ON THESE LIMITS.

**ITEM 625 - PULL BOX, 725.08, 18", AS PER PLAN**

PULL BOX LIDS SHALL BE FABRICATED WITH RAISED LETTERS "ELECTRIC" OR "TRAFFIC" AS SHOWN ON THE PLANS. EACH HIGHWAY ADVISORY RADIO SHALL HAVE ONE "TRAFFIC" AND ONE "ELECTRIC" 18" PULL BOX. THE POWER DISTRIBUTION CABLE SHALL BE RAN THROUGH THE "ELECTRIC" PULL BOX, AND THE ETHERNET CABLE SHALL BE RAN THROUGH THE "TRAFFIC" PULL BOX.

**ITEM 625 - POWER SERVICE, AS PER PLAN**

THE CONTRACTOR SHALL USE AN EXISTING POWER SOURCE FOR EACH NEW HAR SITE. DETAILS FOR THE POWER SERVICE, AS PER PLAN AT EACH SITE ARE BELOW.

**SITE 1**  
THE POWER SERVICE FOR THE EXISTING DYNAMIC MESSAGE SIGN (DMS) AT SITE 1 SHALL BE USED TO POWER THE NEW HAR. THE CONTRACTOR SHALL RUN THE DISTRIBUTION CABLE FROM THE EXISTING POWER PANEL IN THE GROUND MOUNTED DMS CABINET, THROUGH THE EXISTING 32" PULL BOX, TO THE NEW 18" ELECTRIC PULL BOX, TO THE POLE MOUNTED ITS CABINET WHICH HOUSES THE HAR EQUIPMENT ON THE WOOD POLE. THE CONTRACTOR SHALL INSTALL A NEW 15 AMP BREAKER AT THE EXISTING POWER SERVICE IF NEEDED.

**SITE 2**

THE POWER SERVICE FOR THE EXISTING DYNAMIC MESSAGE SIGN (DMS) AT SITE 2 SHALL BE USED TO POWER THE NEW HAR. THE CONTRACTOR SHALL INSTALL A NEW 15 AMP BREAKER AT THE EXISTING POWER SERVICE AND RUN THE DISTRIBUTION CABLE FROM THE NEW BREAKER, THROUGH THE EXISTING 18" PULL BOX, TO THE NEW 18" PULL BOX, TO THE POLE MOUNTED ITS CABINET WHICH HOUSES THE HAR EQUIPMENT ON THE WOOD POLE.

**SITE 3**

THE POWER SERVICE FROM THE EXISTING ODOT DISTRICT 6 BERKSHIRE OUTPOST SHALL BE USED TO POWER THE NEW HAR. THE CONTRACTOR SHALL RUN THE DISTRIBUTION CABLE FROM THE EXISTING POWER PANEL IN THE OUTPOST BUILDING, TO THE NEW 18" ELECTRIC PULL BOX, TO THE POLE MOUNTED ITS CABINET WHICH HOUSES THE HAR EQUIPMENT ON THE WOOD POLE. THE CONTRACTOR SHALL INSTALL A NEW 15 AMP BREAKER AT THE EXISTING POWER SERVICE IN THE BUILDING. FOR MORE DETAILS, SEE GENERAL NOTES SECTION FOR SITE 3 - US-36/SR-37 AT ODOT DISTRICT 6 BERKSHIRE OUTPOST.

**ITEM 632 - INTERCONNECT, MISC.: HIGHWAY ADVISORY RADIO**

IN ADDITION TO THE SPECIAL PROVISIONS, THE FOLLOWING WORK SHALL BE PERFORMED.

THE CONTRACTOR SHALL INSTALL A NEW HIGHWAY ADVISORY RADIO (HAR) AT THREE SEPARATE SITES ACCORDING TO THE PLANS. THE CONTRACTOR SHALL PERFORM A SITE SURVEY AT EACH SITE PRIOR TO INSTALLATION.

IN ADDITION TO THE THREE NEW HAR'S, THE CONTRACTOR SHALL ALSO SURVEY THE SITES FOR THREE EXISTING HAR'S AROUND THE METROPOLITAN COLUMBUS AREA. THE EXISTING HAR SITES ARE LISTED BELOW AND SHOWN ON THE LOCATION MAP ON SHEET 2 AS SITES FOUR THROUGH SIX.

- SITE 4 - I-70 AT I-270 (WEST SIDE)
- SITE 5 - I-70 AT I-270 (EAST SIDE)
- SITE 6 - I-71 AT SCHROCK RD OVERPASS, SOUTH OF I-270

THE EXISTING SITES SHALL BE SURVEYED BY THE CONTRACTOR TO DETERMINE IF A BETTER AND MORE CLEAR AM RADIO FREQUENCY IS AVAILABLE AND OBTAINABLE THROUGH FEDERAL COMMUNICATIONS COMMISSION (FCC) LICENSING. UPON THE OUTCOME OF THE SURVEYS AND RECOMMENDATIONS FROM THE CONTRACTOR, ODOT WILL MAKE THE DECISION TO CHANGE OR MAINTAIN THE EXISTING 1200 AM RADIO FREQUENCY FOR THE EXISTING HAR SITES. THE CONTRACTOR SHALL THEN HANDLE ALL FCC LICENSING REQUIREMENTS AND PAPERWORK FOR A TEN YEAR RENEWAL OF ODOT'S FCC LICENSE AGREEMENT FOR THE RADIO STATION FREQUENCY. THIS AGREEMENT WILL INCLUDE ALL SIX HAR SITES INCLUDING THE THREE NEW AND THREE EXISTING SITES.

IF A NEW FREQUENCY IS DETERMINED MORE APPROPRIATE, THE CONTRACTOR SHALL PERFORM ALL NECESSARY HARDWARE MODIFICATION TO INTEGRATE ALL HAR'S TO THE SAME FREQUENCY.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM ALL OF THE ABOVE WORK IN COORDINATION WITH ODOT AND THE PROJECT ENGINEER.

PAYMENT FOR ALL OF THE ABOVE WORK SHALL BE INCIDENTAL TO THE UNIT BID PRICE FOR ITEM 632, INTERCONNECT, MISC.: HIGHWAY ADVISORY RADIO AND SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE ITEM.

**ITEM 632 - INTERCONNECT CABLE, MISC.: ETHERNET CABLE**

THE CONTRACTOR SHALL SUPPLY AN OUTDOOR RATED CAT 6 ETHERNET CABLE TO BE RAN UNDERGROUND THROUGH CONDUIT AND PULL BOXES.

FOR SITE 1 AND 2, THE ETHERNET CABLE SHALL CONNECT TO THE SWITCH IN THE EXISTING GROUND MOUNTED DMS CABINET AND TO THE SWITCH IN THE NEW ITS CABINET ON THE WOOD POLE SUPPORTING THE HAR. FOR SITE 3, THE ETHERNET CABLE SHALL CONNECT TO AN ETHERNET PORT IN THE BERKSHIRE OUTPOST BUILDING AND TO THE SWITCH IN THE NEW ITS CABINET ON THE WOOD POLE SUPPORTING THE HAR.

THE CONTRACTOR SHALL SURVEY EACH SITE TO ENSURE THE LENGTH OF CABLE NEEDED AND SHOULD NOT ASSUME THE PLAN QUANTITIES ARE SUFFICIENT. PAYMENT FOR ALL OF THE ABOVE WORK SHALL BE INCIDENTAL TO THE UNIT BID PRICE FOR ITEM 633, INTERCONNECT CABLE, MISC.: ETHERNET CABLE AND SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE ITEM.

**ITEM 632 - WOOD POLE, AS PER PLAN**

THE CONTRACTOR SHALL PROVIDE AND INSTALL A 40 FOOT GRADE C, CLASS 4 WOOD POLE TO SUPPORT EACH HAR AS SHOWN ON THE TYPICAL HAR DETAILS SHEET, SHEET 8. THE WOOD POLE SHALL HAVE A HEIGHT OF 30 FEET ABOVE GROUND.

PAYMENT FOR ALL OF THE ABOVE WORK SHALL BE INCIDENTAL TO THE UNIT BID PRICE FOR ITEM 632, WOOD POLE, AS PER PLAN AND SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO CONSTRUCT THE ITEM.

**ITEM 633 - CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET**

FOR DETAILS SEE SPECIAL PROVISIONS.

**SITE 3 - US-36/SR-37 AT ODOT DISTRICT 6 BERKSHIRE OUTPOST**

THE CONTRACTOR SHALL INSTALL A HIGHWAY ADVISORY RADIO (HAR) WITHIN THE ODOT DISTRICT 6 BERKSHIRE OUTPOST, ON THE NORTHWEST CORNER OF THE PROPERTY, AT 40.266664114 DEGREES LATITUDE AND -82.936908434 DEGREES LONGITUDE, AS SHOWN ON THE EXISTING SITE PLAN ON SHEET 11 WITH APPROXIMATE DISTANCES FROM NEARBY LANDMARKS. THE CONTRACTOR SHALL AVOID ALL EXISTING UTILITIES AND CONDUIT LINES. THIS LOCATION HAS BEEN STAKED OUT. THE CONTRACTOR SHALL SURVEY THE SITE WITH THE PROJECT ENGINEER AND A REPRESENTATIVE FROM BOTH THE OFFICE OF ENVIRONMENTAL SERVICES AND OFFICE OF TRAFFIC ENGINEERING BEFORE INSTALLATION.

POWER AND COMMUNICATION FOR THE HIGHWAY ADVISORY RADIO SHALL BE ACQUIRED FROM THE MAIN BUILDINGS NORTH WALL AND SHALL BE RAN THROUGH SEPARATE CONDUITS AND PULL BOXES. THE CONTRACTOR SHALL EITHER USE THE EXISTING HOLE FOR THE POWER AND COMMUNICATION LINES TO COME THROUGH THE NORTH WALL OR DRILL ANOTHER HOLE CLOSE TO THE EXISTING ONE. THE PATH OF THE CONDUITS SHALL GO FROM THE NORTH WALL OF THE BUILDING, BETWEEN THE EXISTING AIR CONDITIONER AND ANTENNA POLE, PARALLEL TO THE EXISTING CONCRETE PAD BUT NOT WITHIN FIVE FEET OF IT, AND AROUND TO THE NORTHWEST CORNER OF THE PROPERTY WHERE THE HAR POLE WILL BE LOCATED. THE CONTRACTOR SHALL HAND DIG THE TRENCH WHEN CLOSE TO THE BUILDING AND THE BEGINNING OF THE PARALLEL RUN AROUND THE CONCRETE PAD DUE TO MANY EXISTING UNDERGROUND CONDUITS LOCATED IN THIS AREA. THE DEPTH OF THE TRENCH WILL NOT BE REQUIRED TO BE 48 INCHES DEEP IN THIS AREA BUT SHOULD BE AT LEAST GREATER THAN 18 INCHES DEEP. THE CONTRACTOR SHALL TAKE ALL CAUTION NECESSARY TO NOT DISTURB ANY OF THE EXISTING UTILITIES.

THE FOLLOWING QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY FOR INSTALLATION OF THE HAR AT THIS LOCATION. ALL QUANTITIES SHALL BE INCLUDED IN THE UNIT BID PRICE FOR EACH ITEM.

- ITEM 625 - NO. 10 AWG 5000 VOLT DISTRIBUTION CABLE..400 FT
- ITEM 625 - CONDUIT, 2", 725.05.....80 FT
- ITEM 625 - CONDUIT, 4", 725.05.....80 FT
- ITEM 625 - TRENCH, 48" DEEP.....80 FT
- ITEM 625 - PULL BOX, 725.08, 18", AS PER PLAN.....2 EA
- ITEM 625 - PLASTIC CAUTION TAPE.....80 FT
- ITEM 632 - INTERCONNECT CABLE, MISC.: ETHERNET CABLE..
- .....100 FT
- ITEM 632 - INTERCONNECT, MISC.: HIGHWAY ADVISORY RADIO.....1 EA
- ITEM 632 - WOOD POLE, AS PER PLAN.....1 EA
- ITEM 633 - CONTROLLER WORK PAD, AS PER PLAN.....1 EA
- ITEM 632 - CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET.....1 EA

**ITEM 630 - SIGNING, MISC.: HIGHWAY ADVISORY RADIO FLASHING BEACON SYSTEM**

FOR DETAILS, SEE THE SPECIFICATION FOR THE FLASHING BEACON SYSTEM IN THE SPECIAL PROVISIONS FOR HIGHWAY ADVISORY RADIO.

THE CONTRACTOR SHALL PROVIDE EIGHT FLASHING BEACON SYSTEMS ACCORDING TO THE SPECIAL PROVISIONS AND INSTALL THEM ON SIGNS IN THE LOCATIONS TABLE ON SHEET 2. THE CONTRACTOR SHALL COORDINATE WITH ODOT DISTRICT 6 PROJECT NUMBER 113004, PID 85950, VA-EXTRUSIGN-FY2011A, WHICH WILL DESIGN AND INSTALL THESE SIGNS BETWEEN THE DATES OF 3/1/2012 AND 6/1/2012. THE CONTRACTOR SHALL COORDINATE WITH THIS PROJECT IN ORDER TO INTALL THE FLASHING BEACON SYSTEMS ON EACH HAR SIGN AS SOON AS THE SIGNS ARE READY.

THE CONTRACTOR SHALL INSTALL THE FLASHING BEACONS DIRECTLY OVER THE STRUCTURAL BEAMS AS SHOWN IN THE TYPICAL DRAWING ON SHEET 8. THE SOLAR PANELS SHALL BE MOUNTED AND POSITIONED AS NECESSARY FOR EACH SIGN IN ORDER TO MAXIMIZE SUNLIGHT. THE CONTRACTOR SHALL RUN WIRE THROUGH FLEXIBLE CONDUIT WITH WATERTIGHT FITTINGS AND MAKE ALL CONNECTIONS FOR CORRECT FUNCTIONALITY OF THE SYSTEM.

PAYMENT FOR ALL OF THE ABOVE WORK SHALL BE INCIDENTAL TO THE UNIT BID PRICE FOR ITEM 630, SIGNING, MISC.: HIGHWAY ADVISORY RADIO FLASHING BEACON SYSTEM AND SHALL INCLUDE ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE ITEM.

**UTILITIES**

THE IDENTITY AND LOCATION OF SOME OF THE EXISTING UNDERGROUND FACILITIES KNOWN TO BE LOCATED IN THE CONSTRUCTION AREA HAVE BEEN IDENTIFIED. THE CONTRACTOR SHALL GIVE NOTICE OF INTENT TO CONSTRUCT TO THE OHIO UTILITIES PROTECTION SERVICE (OUPS), PRODUCERS UNDERGROUND PROTECTION SERVICE, AND ANY NON-MEMBERS OF A REGISTERED PROTECTION SERVICE AT LEAST TWO WORKING DAYS BEFORE CONSTRUCTION AND IN ACCORDANCE WITH SECTION 153.64 OF THE OHIO REVISED CODE. THE FOLLOWING UTILITIES ARE LOCATED WITHIN THE WORK LIMITS OF THE PROJECT AND THE OWNERS SUBSCRIBE TO REGISTERED UNDERGROUND PROTECTION SERVICE.

OHIO UTILITY PROTECTION SERVICE: 1-800-362-2764  
PRODUCERS UNDERGROUND PROTECTION SERVICE: 1-614-587-0486  
NON-MEMBERS MUST BE CALLED DIRECTLY.

LISTED BELOW ARE THE KNOWN UTILITIES LOCATED WITHIN THE PROJECT CONSTRUCTION LIMITS TOGETHER WITH THEIR RESPECTIVE OWNERS.

**SITE 1**

Paul Paxton  
AEP  
850 Tech Center Drive  
Gahanna, OH 43230-6605  
614.883.6831  
ptpaxton@aep.com

Ms. Tina Hairston  
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700 Morrison Road  
Gahanna, OH 43230  
614.552.1801  
thairston@aep.com

Tom Ziomek  
AT&T  
111 North Fourth Street - 8th Floor  
Columbus, OH 43215  
614.223.7162  
tz7315@att.com

Jon Amstutz (SW)  
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1600 Dublin Road - EW 2  
Columbus, OH 43215  
614.481.1056  
jamstutz@nisource.com

Mr. Dean Ringle, P. E., P. S.  
Franklin County Engineer  
970 Dublin Road  
Columbus, OH 43215  
614.525.3030

City of Grove City  
4035 Broadway  
Grove City, OH 43123  
614.277.3000

Mr. Terry Allen  
Time Warner Cable  
3760 Interchange Drive  
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Columbus, OH 43216-2553  
614.255.6349

**SITE 2**

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1 Riverside Plaza - 12th Floor  
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Hassan Y. Zahran, P.E., Administrator  
City of Columbus  
Public Service Department  
Design and Construction Division  
109 N. Front Street 3rd Floor  
Columbus, Ohio 43215

CITY OF DUBLIN  
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Mr. Chris Avery  
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tapplegate@conelec.com

Shane Clark  
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Mr. Chris Avery  
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Columbus, OH 43216-2553  
614.255.6349

Delaware County Regional Sewer District  
50 Channing Street  
Delaware, OH 43015  
740.833.2240  
Technical Advisor - Jack Smelker, P. E.  
Director of Environmental Services, Sanitary Engineer -  
Tiffany Jenkins, P. E.

**ODOT CENTRAL OFFICE CONTACT INFORMATION**

GEORGE W. SAYLOR, P.E.  
SENIOR ITS ENGINEER  
OFFICE OF TRAFFIC ENGINEERING  
OHIO DEPARTMENT OF TRANSPORTATION  
1980 W. BROAD ST., 3RD FLOOR - SW  
COLUMBUS, OH 43223  
614-752-8099  
GEORGE.SAYLOR@DOT.STATE.OH.US

OFFICE OF ENVIRONMENTAL SERVICES  
OHIO DEPARTMENT OF TRANSPORTATION  
1980 W. BROAD ST.  
COLUMBUS, OH 43223  
614-466-7100

**ODOT DISTRICT 6 CONTACT INFORMATION**

ODOT DISTRICT 6  
TRAFFIC  
400 East William Street  
Delaware, Ohio 43015  
740.833.8332  
Kraig Shrewsberry  
740.833.8198  
kraig.shrewsberry@dot.state.oh.us

ODOT DISTRICT 6  
FACILITIES  
PHIL BURKETT  
740-272-3260

CALCULATED  
BRC  
CHECKED  
JMY

**GENERAL NOTES**

**D06 - VAR - HAR**

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**ITEM 614 - MAINTAINING TRAFFIC**

ALL TRAFFIC CONTROL DEVICES SHALL BE FURNISHED, ERECTED, MAINTAINED, AND REMOVED BY THE CONTRACTOR IN ACCORDANCE WITH THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (CURRENT EDITION). COPIES ARE AVAILABLE FROM, THE OHIO DEPARTMENT OF TRANSPORTATION BUREAU OF TRAFFIC, 1980 WEST BROAD STREET COLUMBUS, OHIO 43223

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK LISTED IN THE GENERAL SUMMARY FOR ITEMS DESIGNATED BY PLAN NOTE TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER.

LENGTH AND DURATION OF LANE CLOSURE AND RESTRICTIONS SHALL BE AT THE APPROVAL OF THE ENGINEER. IT IS THE INTENT TO MINIMIZE THE IMPACT TO THE TRAVELING PUBLIC. LANE CLOSURES OR RESTRICTIONS OVER SEGMENTS OF THE PROJECT IN WHICH NO WORK IS ANTICIPATED WITH A REASONABLE TIME FRAME, AS DETERMINED BY THE ENGINEER, SHALL NOT BE PERMITTED. THE LEVEL OF UTILIZATION OF MAINTENANCE OF TRAFFIC DEVICES SHALL BE COMMENSURATE WITH THE WORK IN PROGRESS.

CONSTRUCTION OPERATIONS SHALL NOT BEGIN UNTIL ALL TRAFFIC CONTROL IS IN PLACE AND APPROVED BY ODOT PERSONNEL. THE CONSTRUCTION INSPECTOR SHALL APPROVE ALL TEMPORARY TRAFFIC CONTROL DEVICES FOR CONDITION AND LOCATION BEFORE THE CONTRACTOR WILL BE ALLOWED TO BEGIN WORK. IF THE CONTRACTOR DOES NOT COMPLY WITH THE STANDARDS, HIS PERMIT SHALL BE REVOKED AND ALL WORK SHALL BE TERMINATED.

ALL WORK AND TRAFFIC CONTROL DEVICES SHALL BE IN ACCORDANCE WITH CMS 614 AND OTHER APPLICABLE PORTIONS OF THE SPECIFICATIONS, AS WELL AS THE OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. PAYMENT FOR ALL LABOR, EQUIPMENT, AND MATERIALS SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614, MAINTAINING TRAFFIC, UNLESS SEPARATELY ITEMIZED IN THE PLAN.

LANES OPEN DURING HOLIDAYS AND SPECIAL EVENTS

NO WORK SHALL BE PERFORMED AND THE SAME NUMBER OF LANES AS WERE AVAILABLE AT THE START OF THE PROJECT SHALL BE OPEN TO TRAFFIC DURING THE FOLLOWING DESIGNATED HOLIDAYS OR EVENTS:

**HOLIDAYS**  
 CHRISTMAS, NEW YEARS EVE, MEMORIAL DAY, MOTHERS DAY, FOURTH OF JULY, LABOR DAY, THANKSGIVING

**EVENTS**  
 THE OHIO STATE FAIR (JULY 27, 2011 THROUGH AUGUST 7, 2011)

THE PERIOD OF TIME THAT THE LANES ARE TO BE OPEN DEPENDS ON THE DAY OF THE WEEK ON WHICH THE HOLIDAY FALLS. THE FOLLOWING SCHEDULE SHALL BE USED TO DETERMINE THIS PERIOD:

DAY OF HOLIDAY	TIME ALL LANES MUST BE OPEN TO TRAFFIC
SUNDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY
MONDAY	12:00N FRIDAY THROUGH 6:00 AM TUESDAY
TUESDAY	12:00N MONDAY THROUGH 6:00 AM WEDNESDAY
WEDNESDAY	12:00N TUESDAY THROUGH 6:00 AM THURSDAY
THURSDAY	12:00N WEDNESDAY THROUGH 6:00 AM FRIDAY
THURSDAY (THANKSGIVING ONLY)	12:00N TUESDAY THROUGH 6:00 AM MONDAY
FRIDAY	12:00N THURSDAY THROUGH 6:00 AM MONDAY
SATURDAY	12:00N FRIDAY THROUGH 6:00 AM MONDAY

NO EXTENSIONS OF TIME SHALL BE GRANTED FOR DELAYS IN MATERIAL DELIVERIES, UNLESS SUCH DELAYS ARE INDUSTRY WIDE, OR FOR LABOR STRIKES, UNLESS SUCH STRIKES ARE AREA WIDE.

SHOULD THE CONTRACTOR FAIL TO MEET ANY OF THESE REQUIREMENTS, THE CONTRACTOR SHALL BE ASSESSED A DISINCENTIVE IN ACCORDANCE WITH THE DISINCENTIVE TABLE.

**NOTIFICATION OF TRAFFIC RESTRICTIONS**

THROUGHOUT THE DURATION OF THE PROJECT, THE CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER IN WRITING OF ALL TRAFFIC RESTRICTIONS AND UPCOMING MAINTENANCE OF TRAFFIC CHANGES. THE CONTRACTOR SHALL ENSURE THE WRITTEN NOTIFICATION IS SUBMITTED IN A TIMELY MANNER TO ALLOW THE PROJECT ENGINEER TO MEET THE REQUIRED TIME FRAMES SET FORTH IN THE TABLE BELOW. THE PROJECT ENGINEER SHALL RECEIVE THIS NOTIFICATION PRIOR TO THE PHYSICAL SETUP OF ANY APPLICABLE SIGNS OR MESSAGE BOARDS.

INFORMATION SHOULD INCLUDE BUT IS NOT LIMITED TO ALL CONSTRUCTION ACTIVITIES THAT IMPACT OR INTERFERE WITH TRAFFIC AND SHOULD LIST THE SPECIFIC LOCATION, TYPE OF WORK, ROAD STATUS, DATE AND TIME OF RESTRICTION, DURATION OF RESTRICTION, NUMBER OF LANES MAINTAINED, DETOUR ROUTES IF APPLICABLE, AND ANY OTHER INFORMATION REQUESTED BY THE PROJECT ENGINEER.

ITEM OF WORK	DURATION OF CLOSURE	NOTIFICATION DUE TO DISTRICT 6 COMMUNICATION OFFICE
ROAD & RAMP CLOSURES	GREATER THAN 2 WEEKS	14 BUSINESS DAYS PRIOR TO CLOSURE
	GREATER THAN 12 HOURS, LESS THAN 2 WEEKS	7 BUSINESS DAYS PRIOR TO CLOSURE
	LESS THAN 12 HOURS	2 BUSINESS DAYS PRIOR TO CLOSURE
LANE CLOSURE RESTRICTIONS	GREATER THAN 2 WEEKS	7 BUSINESS DAYS PRIOR TO CLOSURE
	LESS THAN 2 WEEKS	2 BUSINESS DAYS PRIOR TO CLOSURE

ANY UNFORESEEN CONDITIONS NOT SPECIFIED IN THE PLANS REQUIRING TRAFFIC RESTRICTIONS SHALL ALSO BE REPORTED TO THE PROJECT ENGINEER USING THE NOTIFICATION TIME FRAME TABLE.

**PERMITTED LANE CLOSURE TIMES**

ALL LANES OF TRAFFIC IN EACH DIRECTION SHALL BE MAINTAINED AT ALL TIMES, EXCEPT FOR THE ALLOWABLE TIMES SHOWN IN THE PERMITTED LANE CLOSURE TABLE. SHOULDER CLOSURES SHALL NOT OCCUR DURING PEAK HOURS OF 6:00 A.M. TO 9:00 A.M. AND 3:00 P.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY. A DISINCENTIVE SHALL BE ASSESSED IN THE AMOUNT SHOWN IN THE PERMITTED LANE CLOSURE TABLE FOR EACH PERIOD OF TIME THAT A LANE REDUCTION, LANE RESTRICTION, RAMP REDUCTION OR RAMP RESTRICTION REMAINS BEYOND THE PERMITTED WORKING HOURS SHOWN IN THE PERMITTED LANE CLOSURE TABLE.

**PERMITTED LANE CLOSURE TABLE**

Site No.	Existing Number of Lanes per Direction	Lane closures are permitted anytime except:			Disincentive Amounts per minute per lane	
		Lane Reduction	Mon to Fri	Sat		Sun
1	2	2 to 1	6AM-8PM	7AM-9AM & 2PM-7PM	7AM-9AM & 2PM-10PM	\$100
2	2	2 to 1	5AM-7PM	3PM-6PM	3PM-6PM	\$100
4	2	2 to 1	5AM-11PM	6AM-9PM	6AM-11PM	\$400
5	2	2 to 1	5AM-11PM	6AM-10PM	6AM-10PM	\$400
6	4	4 to 3	5AM-9AM & 3PM-6PM	No Restriction	No Restriction	\$400
		4 to 2	5AM-8PM	7AM-9AM & 2PM-7PM	7AM-9AM & 2PM-7PM	\$400
		4 to 1	5AM-11PM	6AM-10PM	6AM-10PM	\$400

\*WHEN THE FREEWAY IS REDUCED TO ONE THROUGH LANE, ALL ENTRANCE RAMPS ENTERING THE WORKZONE OR WITHIN 1000 FEET OF THE MERGE TAPER SHOULD ALSO BE CLOSED AND APPROPRIATE DETOURS SET UP.

**USE OF WEIGHTED CHANNELIZERS**

THE WEIGHTED CHANNELIZERS MAY BE USED IN ACCORDANCE WITH THIS SECTION. THE WEIGHTED CHANNELIZERS SHALL BE PREDOMINANTLY ORANGE IN COLOR AND SHALL BE MADE OF LIGHTWEIGHT, FLEXIBLE, AND DEFORMABLE MATERIAL. THEY SHALL BE AT LEAST 42 INCHES IN HEIGHT WITH A WEIGHTED BASE. THEY MAY HAVE A HANDLE OR LIFTING DEVICE, WHICH EXTENDS ABOVE THE 42" MINIMUM HEIGHT.

THE MARKINGS ON THE WEIGHTED CHANNELIZERS SHALL BE HORIZONTAL, CIRCUMFERENTIAL, ALTERNATING ORANGE AND WHITE RETRO REFLECTIVE STRIPES 6 INCHES WIDE. EACH WEIGHTED CHANNELIZERS SHALL HAVE A MINIMUM OF TWO ORANGE AND TWO WHITE STRIPES. ANY NON-RETRO REFLECTIVE SPACES BETWEEN THE HORIZONTAL ORANGE AND WHITE STRIPES SHALL NOT EXCEED 2 INCHES WIDE. THE WEIGHTED CHANNELIZERS SHALL HAVE A 4-INCH MINIMUM WIDTH, REGARDLESS OF ORIENTATION.

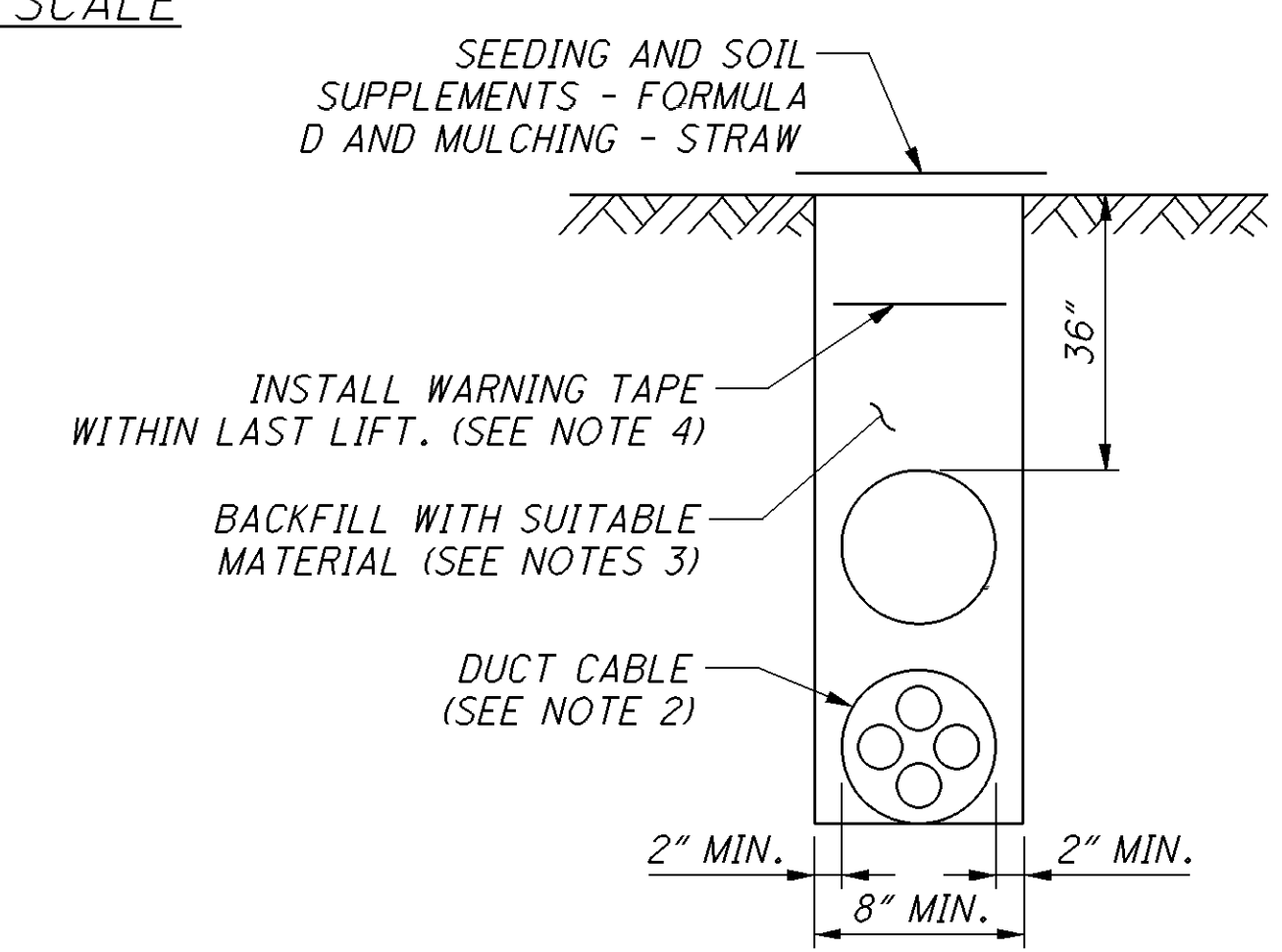
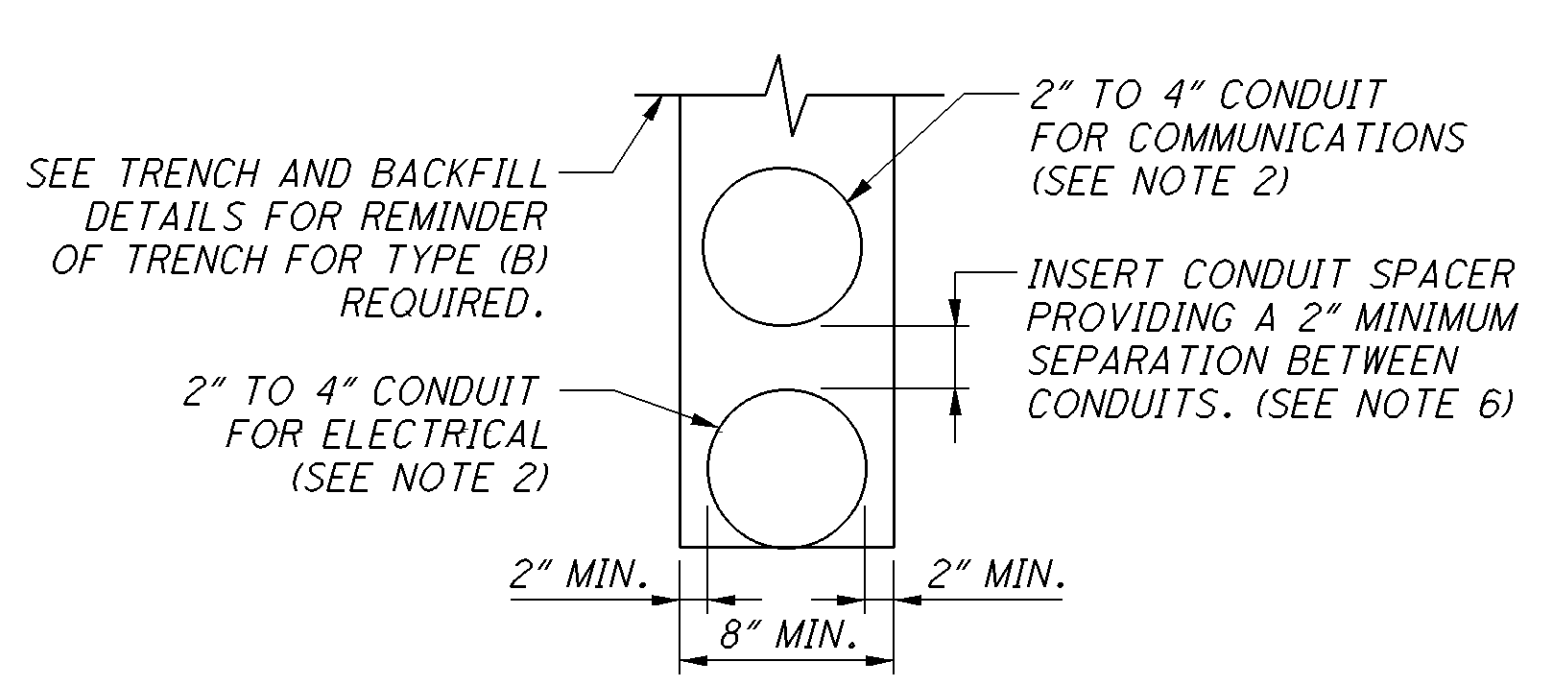
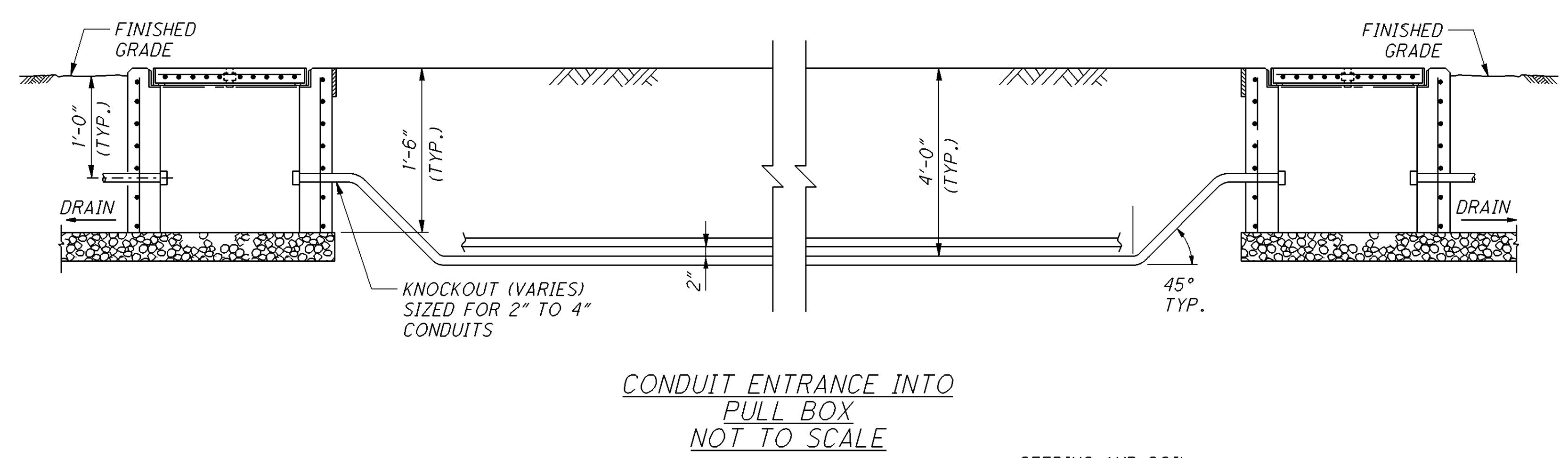
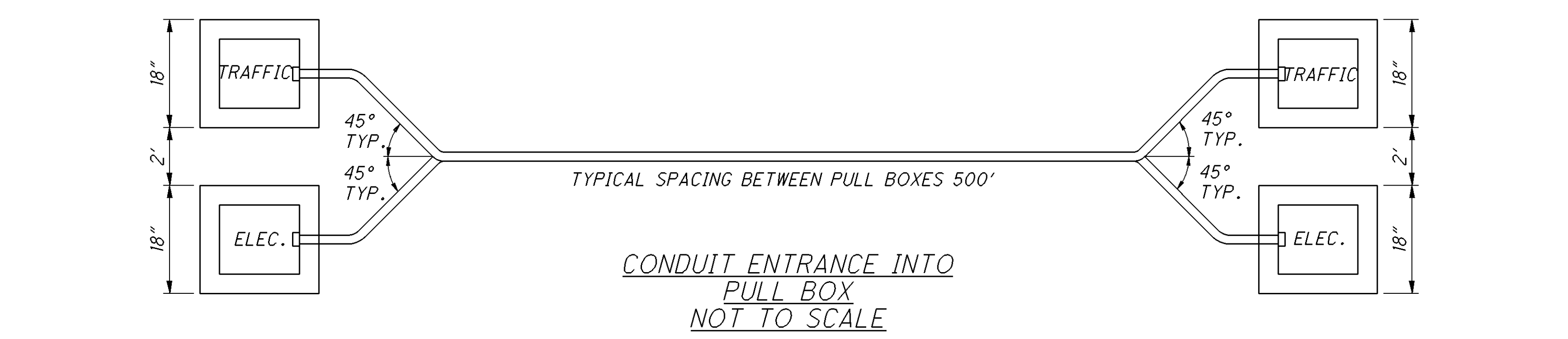
USE OF WEIGHTED CHANNELIZERS ON FREEWAYS AND MULTILANE HIGHWAYS SHALL BE LIMITED TO SHORT-TERM OPERATION FOR EITHER DAY OR NIGHT. UPON COMPLETION OF WORK, THE WEIGHTED CHANNELIZERS SHALL BE REMOVED. THE WEIGHTED CHANNELIZERS MAY AGAIN BE PLACED ON THE HIGHWAY WHEN THE WORK IS TO RESUME ON THE FOLLOWING DAY OR NIGHT. ANY LANE CLOSURE USING CHANNELIZATION DEVICES, EXPECTED TO REMAIN FOR MORE THAN TWELVE HOURS, SHALL REQUIRE THE USE OF DRUMS OR BARRIERS. WORK IS TO RESUME ON THE FOLLOWING DAY OR NIGHT.

WHEN USED AT NIGHT, WEIGHTED CHANNELIZERS SHALL ONLY BE PLACED IN THE TANGENT AREA. THE TANGENT AREA IS DEFINED AS THE AREA AFTER THE TRANSITION TAPER WHERE THE WORK TAKES PLACE. DRUMS SHALL BE USED IN THE TRANSITION TAPERS FOR NIGHT OPERATIONS. MAXIMUM SPACING OF THE WEIGHTED CHANNELIZERS SHALL BE 40 FEET.

STEPS SHOULD BE TAKEN TO ENSURE THAT THE WEIGHTED CHANNELIZERS WILL NOT BE BLOWN OVER OR DISPLACED BY WIND OR MOVING TRAFFIC. BALLASTS SHOULD NOT PRESENT A HAZARD IF THE WEIGHTED CHANNELIZERS ARE INADVERTENTLY STRUCK, NOR SHOULD THEY AFFECT THE VISIBILITY OF THE WEIGHTED CHANNELIZERS. ALL BALLASTS USED SHOULD BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS.

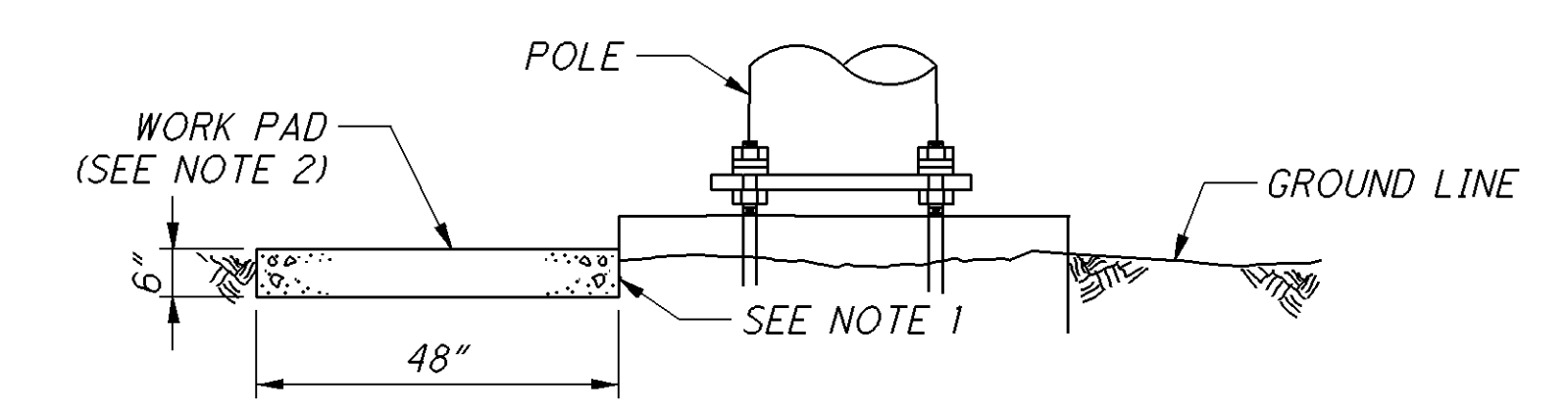
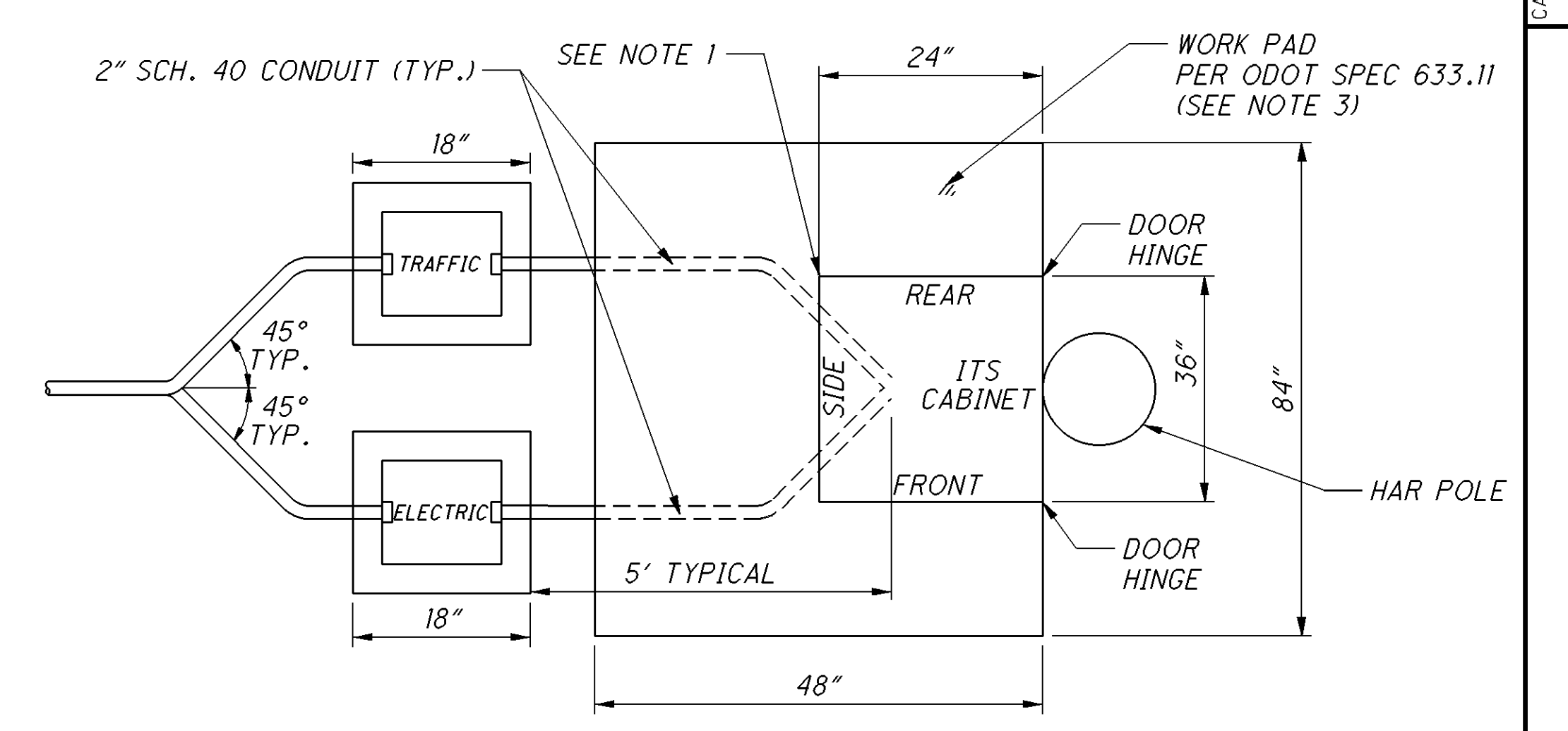
PAYMENT SHALL BE INCLUDED IN THE LUMP SUM CONTRACT PRICE FOR ITEM 614 MAINTAINING TRAFFIC.





**NOTES:**

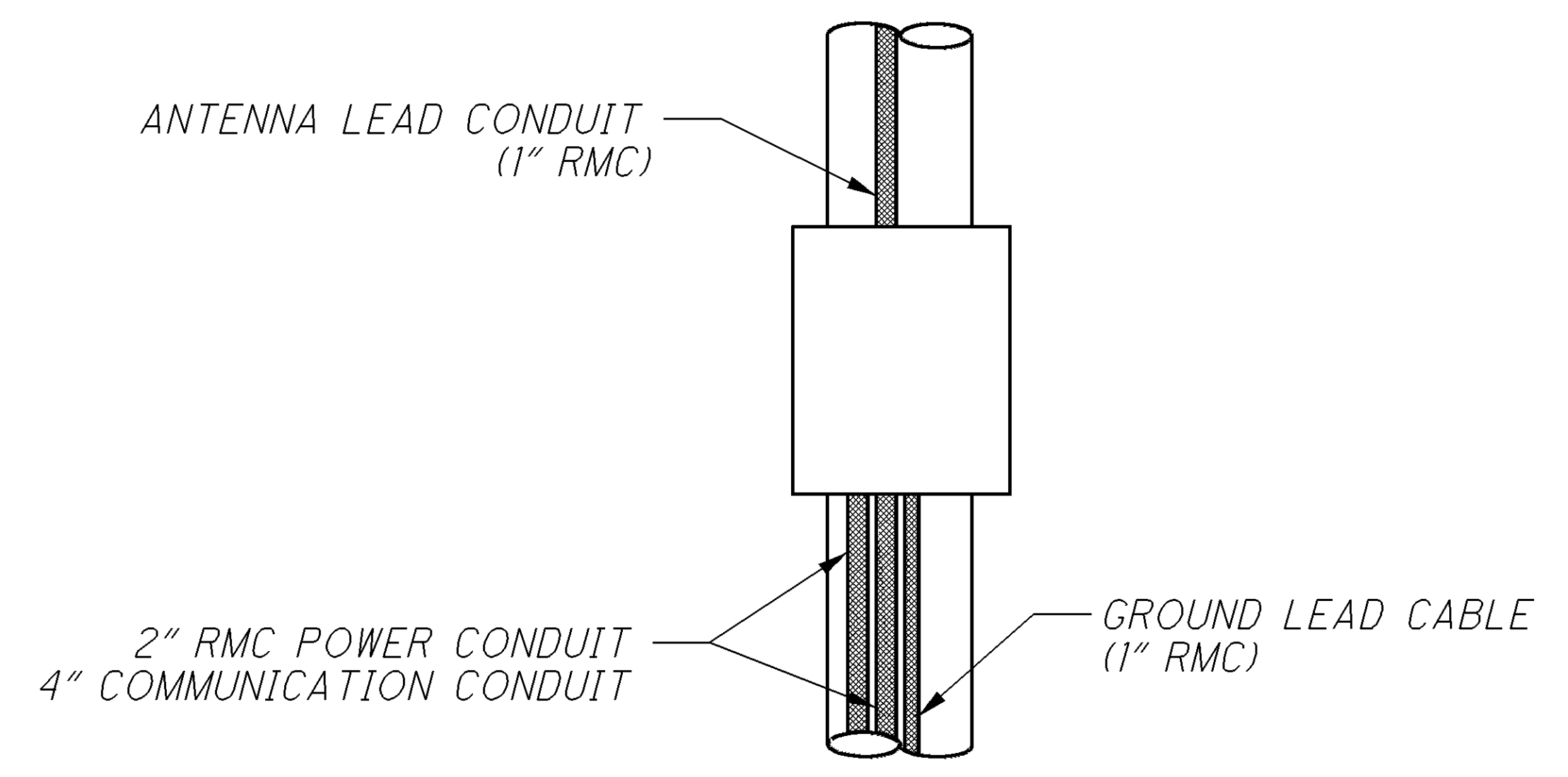
1. REMOVE AND STORE TOPSOIL FROM THE EXCAVATION. DISPOSE OF ALL UNSUITABLE MATERIAL BEFORE BACKFILLING.
2. CENTER THE CONDUIT IN THE TRENCH AND HOLD FIRMLY IN PLACE WHILE THE TRENCH IS BACKFILLED.
3. THE BACKFILL MATERIAL SHALL CONFORM TO ODOT ITEM 625 - TRENCHING (INCIDENTAL).
4. INSTALL A 4 MIL PLASTIC ORANGE WARNING TAPE 6" TO 8" BELOW SURFACE, (INCIDENTAL) FOR THE ENTIRE LENGTH OF THE TRENCH.
5. AFTER BACKFILL MATERIAL IS PLACED IN UNPAVED AREAS, SEED AND MULCH OVER TRENCHED AREA.
6. PROVIDE HIGH IMPACT CONDUIT SPACERS AT INTERVALS NOT GREATER THAT 10'. SPACERS ARE CONSIDERED INCIDENTAL TO THE CONDUIT ITEM AND WILL NOT BE PAID FOR SEPARATELY.



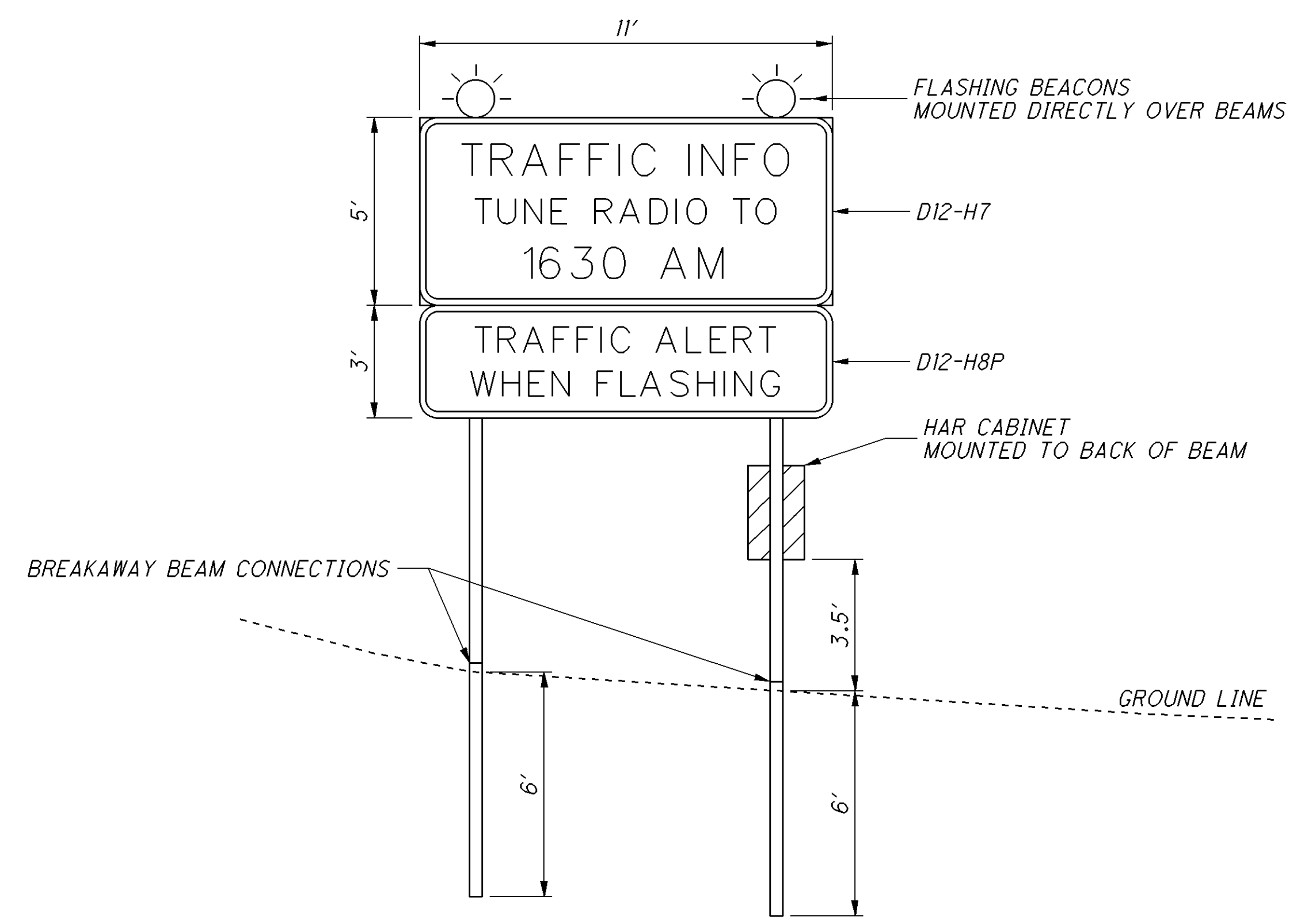
**NOTES**

1. 1/2" PREFORMED JOINT FILLER AS PER 705.03 SHALL BE USED BETWEEN FOUNDATIONS AND ADJACENT PAVED AREAS.
2. A MINIMUM OF ONE 48" X 84" X 6" WORK PAD SHALL BE LOCATED AT GROUND LEVEL BELOW EACH POLE MOUNTED CABINET UNLESS LOCATED IN AN OTHERWISE PAVED AREA OR SHOWN IN THE PLAN VIEW. IN LEVEL AREAS, THE TOP OF THE PAD SHALL BE 1" ABOVE THE GROUND LINE. IN STEEPLY SLOPED AREAS, THE PAD'S LOCATION SHALL BE ADJUSTED TO PROVIDE ACCESS AND DRAINAGE WHILE COMPLYING WITH THE REQUIRED CABINET MOUNTING HEIGHT.
3. A 6" THICK WORK PAD WITH DIMENSIONS SHOWN ON DETAILS SHALL BE PROVIDED UNLESS IN AN OTHERWISE PAVED AREA. WHEN REQUIRED. IN LEVEL AREAS, THE TOP OF THE PAD SHALL BE 1" ABOVE THE GROUND LINE. IN STEEPLY SLOPED AREAS, THE PAD'S LOCATION SHALL BE ADJUSTED TO PROVIDE ACCESS AND DRAINAGE.

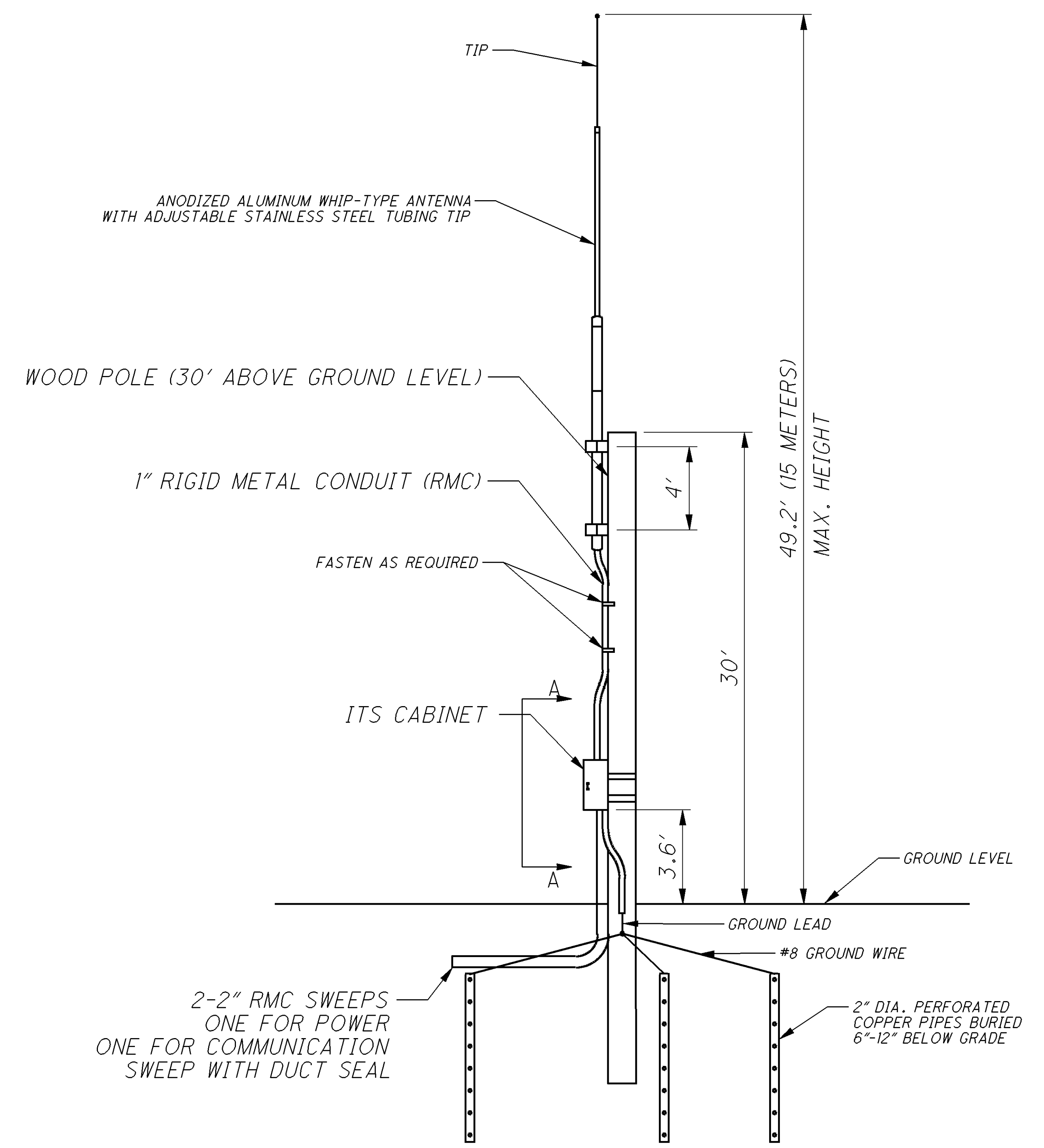
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SECTION A-A  
NOT TO SCALE



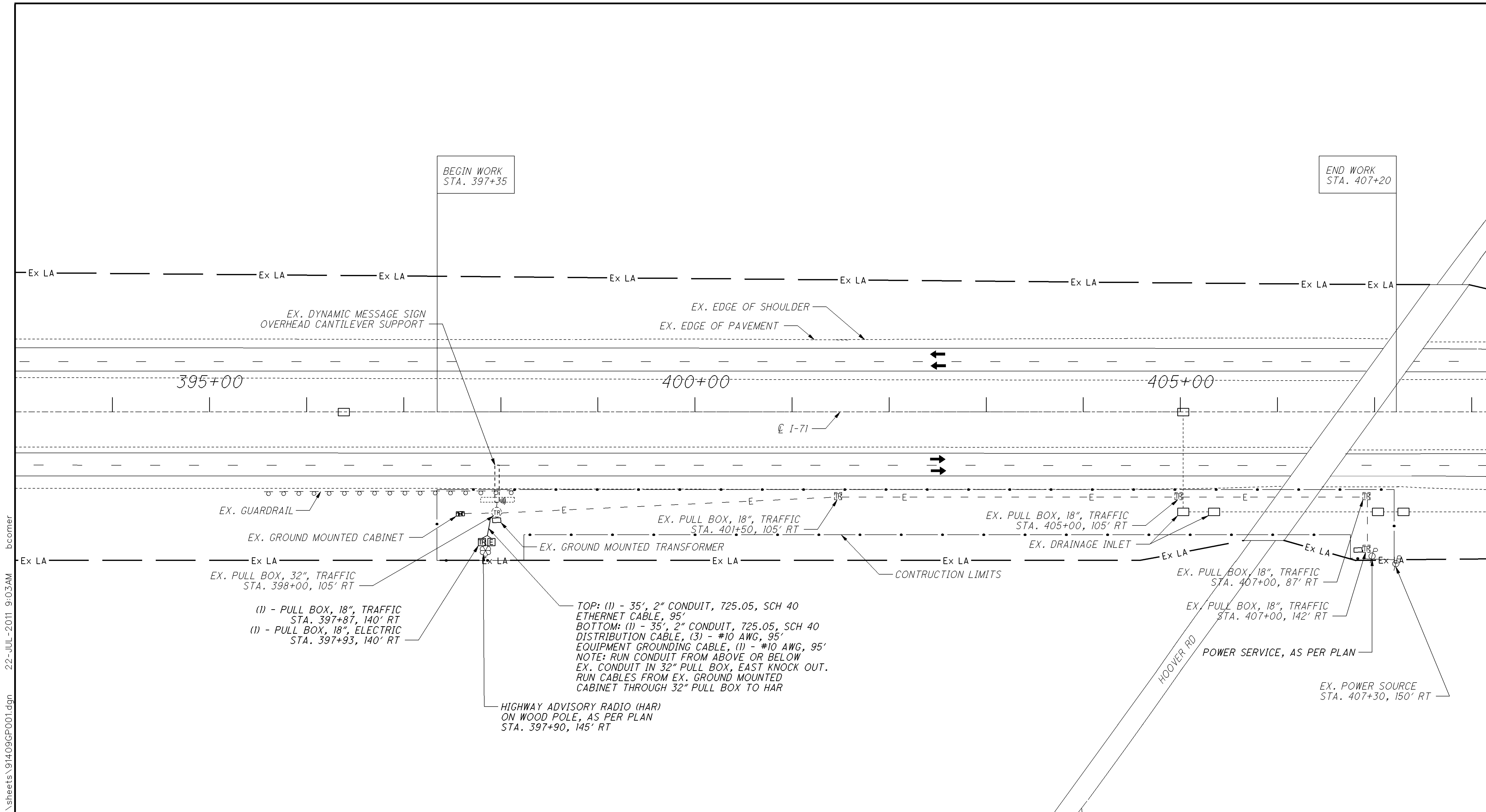
TYPICAL HAR  
FLASHING BEACON SIGN



APPROX. DEPTH 10'-20'  
TRIAD GROUND SYSTEM  
NOT TO SCALE

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ITS DEVICE SUBSUMMARY

ITEM	625	625	625	625	625	625	625	632	632	632	633	633
DESCRIPTION	NO. 10 AWG 600 VOLT DISTRIBUTION CABLE	CONDUIT, 2", 725.05	CONDUIT, 4", 725.05	TRENCH, 48" DEEP	PULL BOX, 725.08, 18", AS PER PLAN	POWER SERVICE, AS PER PLAN	PLASTIC CAUTION TAPE	INTERCONNECT CABLE, MISC.: ETHERNET CABLE	INTERCONNECT, MISC.: HIGHWAY ADVISORY RADIO	WOOD POLE, AS PER PLAN	CONTROLLER WORK PAD, AS PER PLAN	CONTROLLER ITEM, MISC.: FIELD EQUIPMENT CABINET, ITS CABINET
UNIT	FT	FT	FT	FT	EA	EA	FT	FT	EA	EA	EA	EA
TOTAL	380	35	35	35	2	1	35	95	1	1	1	1

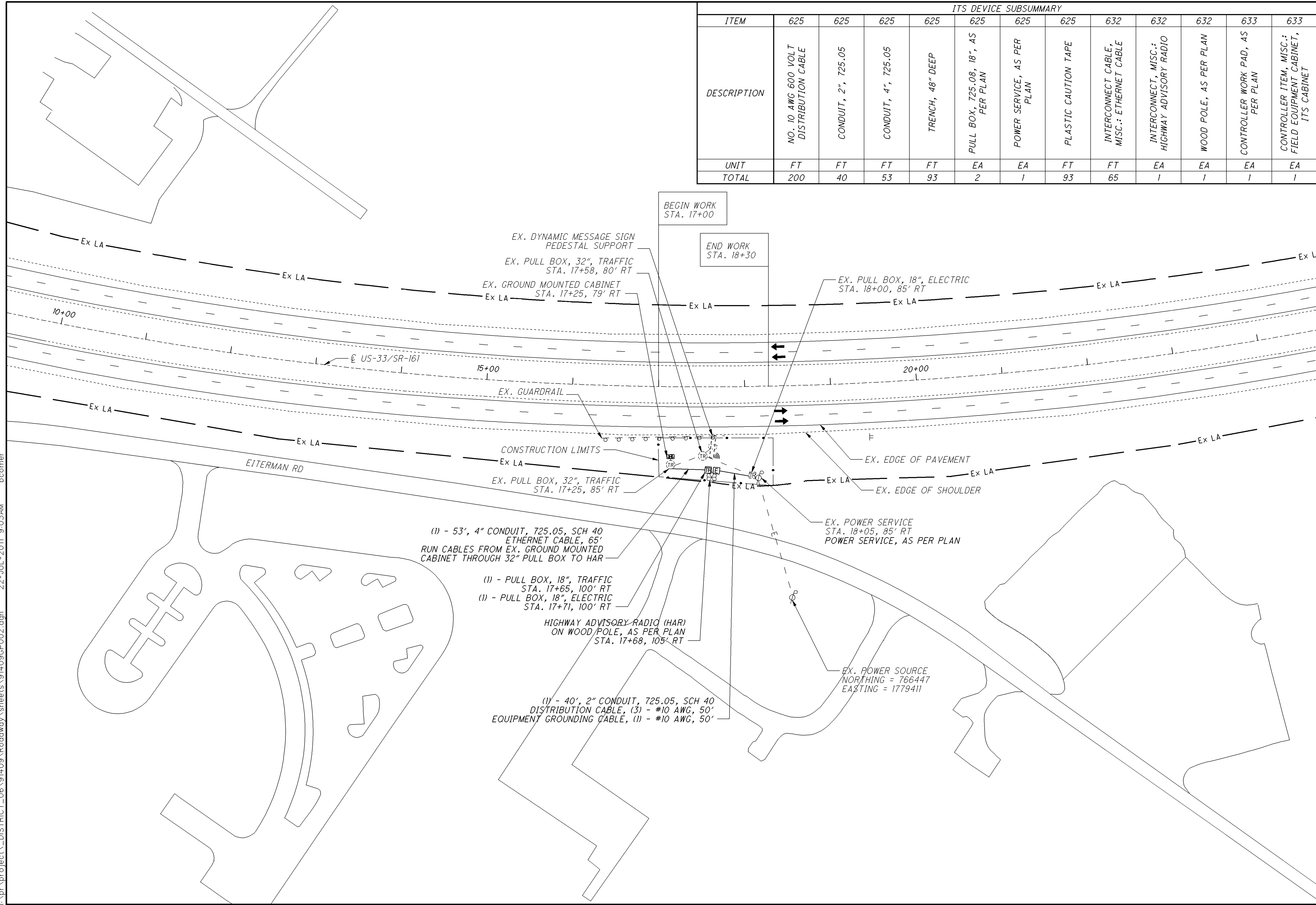
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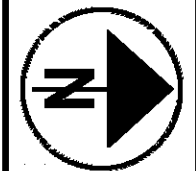
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UNIT	FT	FT	FT	FT	EA	EA	FT	FT	EA	EA	EA	EA
TOTAL	200	40	53	93	2	1	93	65	1	1	1	1

CALCULATED BY BRC  
 CHECKED BY JMY

HORIZONTAL SCALE IN FEET



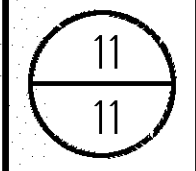
RD  
 PLAN - US-33/ SR-161 EAST OF SR-161/ POST  
 HAR TRANSMITTER - SITE 2



NOT TO SCALE

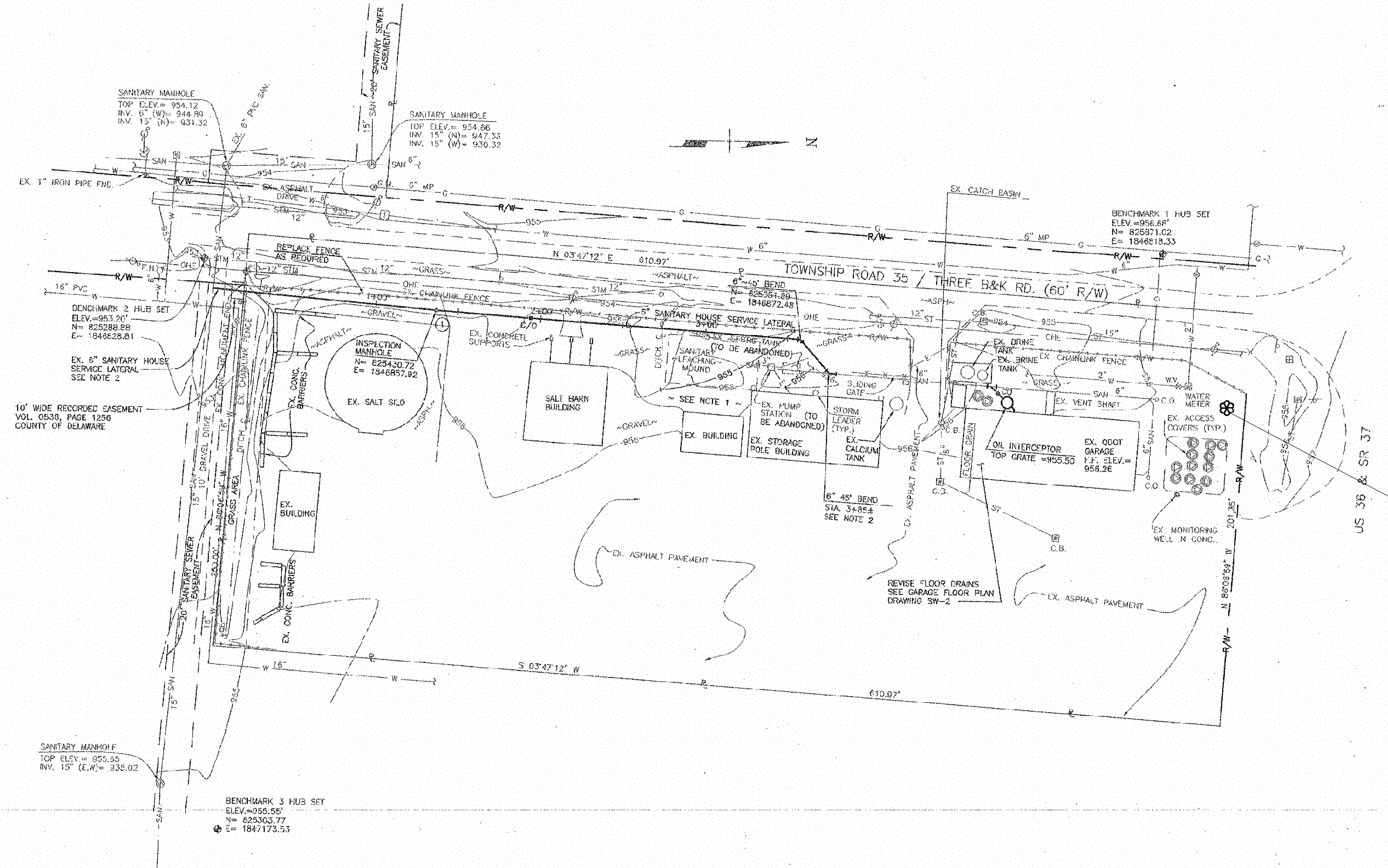
**EXISTING SITE PLAN - ODOT DISTRICT 6  
BERKSHIRE OUTPOST - SITE 3**

**D06-VAR-HAR**



**LEGEND**

- STM --- STORM DRAIN
- SAN --- SANITARY SEWER
- W --- WATERLINE
- E --- ELECTRICAL CONDUIT
- G --- GASLINE
- OHE --- OVERHEAD ELECTRIC
- 955 --- EXISTING CONTOUR
- 955 --- NEW CONTOUR
- P --- PROPERTY LINE
- R/W --- RIGHT-OF-WAY
- ⊗ W.V. WATER VALVE
- ⊙ SANITARY MANHOLE
- ⊠ C.B. CATCH BASIN
- ⊙ ACCESS CASTING
- ⊙ POWER POLE
- ⊙ G.M. GAS METER
- ⊙ S.G.H. SIGN
- ⊠ C.B. EX. CATCH BASIN
- ⊙ C.O. EX. CLEANOUT
- ⊙ C.O. NEW CLEANOUT
- ▨ PAVEMENT REPLACEMENT



HIGHWAY ADVISORY RADIO (HAR)  
ON WOOD POLE, AS PER PLAN  
40.266664114 DEGREES LATITUDE  
-82.936908434 DEGREES LONGITUDE  
APPROXIMATE DISTANCE FROM:  
NORTH FENCE - 12'  
EAST CONCRETE PAD - 19.5'  
SOUTH TREE - 15'  
WEST FENCE - 14'

NOTE: SEE PLAN DETAILS IN THE GENERAL NOTES ON SHEET 3.

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