JB0000801930

1501 PIKE PLACE

HYPERBUILD

COMCAST

1501 PIKE PLACE,
SEATTLE, WA 98101

Connecting The Future Since 1985
CANNON COMPANIES
SAFETY | QUALITY | INTEGRITY | TEAMWORK

1501 PIKE PLACE
DMARK FOR
SUPPLIED SERVICE

CONTACTS:

CANNON COMPANIES
Nate Pinson - (425)-941-7820 - npinson@cannonconstructioninc.com

SCOPE OF WORK:

1. FIBER TIE IN
2. PROOF AND PULL 96CT
3. DIG AND INTERCEPT AND OVERSET MANHOLE
4. TRENCH 1-2" CONDUIT AND PULL 96CT FIBER

SHEET INDEX:

BILL OF MATERIALS*:

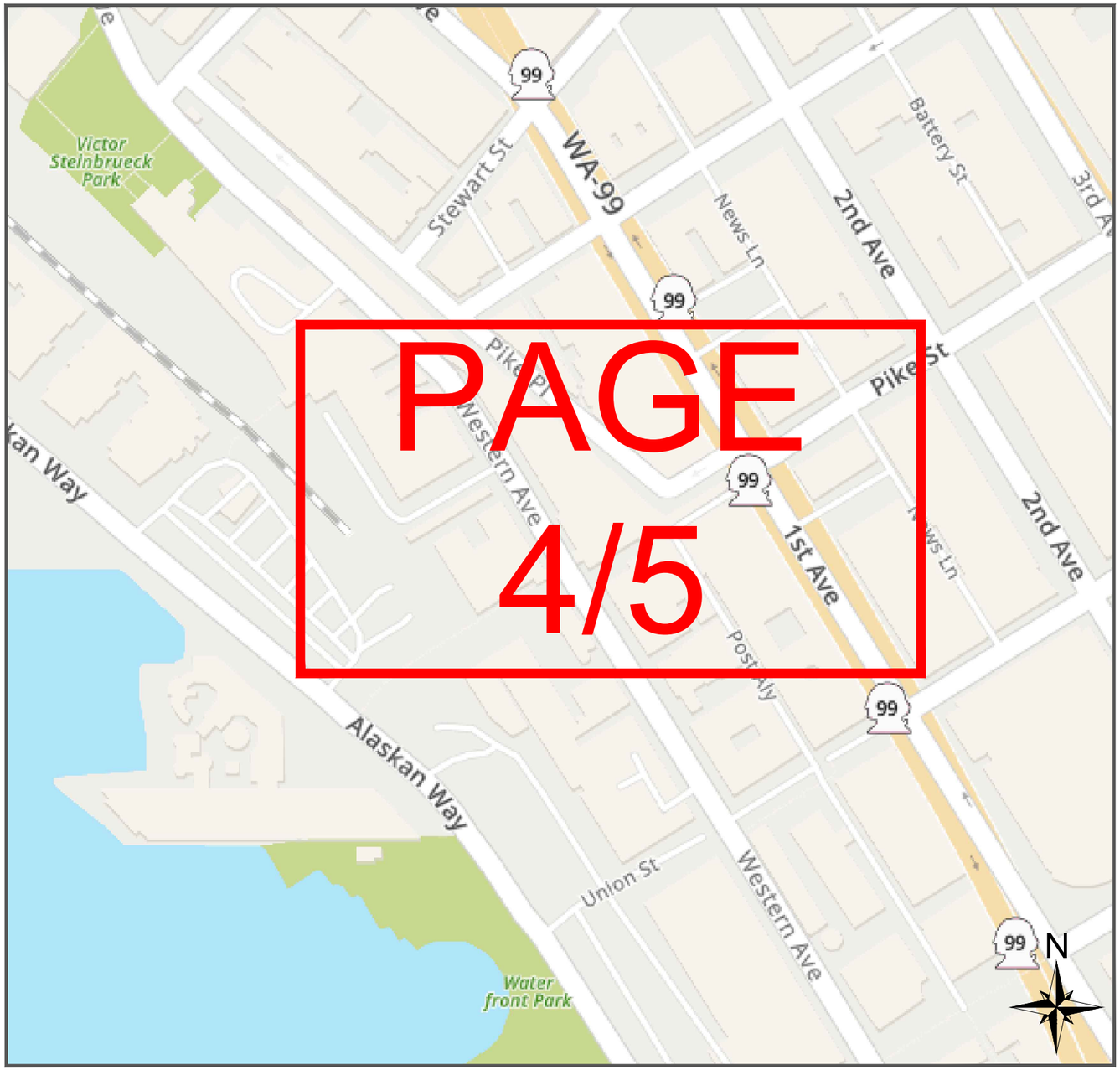
96 CT FIBER: 515 FT + 20% STORAGE = 618 FT

*ALL FOOTAGES AND MATERIALS ARE ESTIMATED

ROW FOOTAGES*:			SITE FOOTAGES*:		
NEW AERIAL	=	0 FT.	NEW BUILDING PATHWAY	=	0 FT.
OVERLASH	=	0 FT.	EXISTING BUILDING PATHWAY	=	0 FT.
NEW UNDERGROUND	=	15 FT.	NEW UNDERGROUND	=	0 FT.
EXISTING UNDERGROUND	=	500 FT.	EXISTING UNDERGROUND	=	0 FT.
RISER (0)	=	0 FT.			
TOTAL ROW FOOTAGE	=	515 FT.	TOTAL SITE FOOTAGE	=	0 FT.

TOTAL PROJECT FOOTAGE = 515 FT.

PROJECT MAP:



PAGE 4/5

LEGEND

LINE TYPES

- LANE LINE
- CENTER LINE
- FOGLINE
- EDGE OF PAVEMENT
- POWER
- TRAFFIC SIGNAL
- COMMUNICATION
- SEWER
- DRAIN
- DRAINAGE DITCH
- GAS
- WATER
- TELCOM
- STEAM
- UNKNOWN UTILITY
- RIGHT OF WAY
- STRAW WATTLES
- FENCE
- HIGH VISIBILITY FENCE
- TRAFFIC CONES
- PROPOSED NEW BORE
- PROPOSED NEW TRENCH
- EXISTING UNDERGROUND PATHWAY
- PROPOSED NEW AERIAL STRAND
- EXISTING AERIAL PATHWAY

EXISTING FEATURES

- UTILITY POLE
- GLULAM UTILITY POLE
- VAULT - SMALL
- VAULT - LARGE
- VAULT - 25TA
- PEDESTAL
- CABINET
- STREET LIGHT
- CROSSWALK LIGHT
- UTILITY RISER
- SHRUBBERY
- TREE
- CATCH BASIN
- CATCH BASIN WITH SOCK
- COMMUNICATION MANHOLE
- SEWER MANHOLE
- DRAIN MANHOLE
- WATER MANHOLE
- FIRE HYDRANT
- UTILITY VALVE
- LANE DIRECTION INDICATOR
- EXISTING SPLICE CASE
- EXISTING FIBER/COAX STORAGE

EXISTING - CONTINUED

- VAULT - SMALL
- VAULT - LARGE
- VAULT - 25TA
- 444LA MANHOLE
- 233LA MANHOLE

PROPOSED

- VAULT - SMALL
- VAULT - LARGE
- VAULT - 25TA
- 444LA MANHOLE
- 233LA MANHOLE
- BORE PIT
- H-FRAME
- PROPOSED SPLICE CASE
- PROPOSED FIBER/COAX STORAGE

MARK-UP NOTATIONS

- STA 0+00 — DISTANCE STATION
- X.X — DISTANCE DIMENSION
- # — CONSTRUCTION NOTE CALLOUT
- A / 7 — CROSS SECTION SYMBOL; CROSS SECTION NAME; CROSS SECTION SHOWN ON PAGE
- 1 WORK BEING DONE LOCATION — PHOTO NOTE CALLOUT
- # — PHOTO LOCATOR SYMBOL

RESTORATION TYPES

- ASPHALT SURFACE
- CONCRETE ROADWAY PANEL
- LANDSCAPE

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1501 PIKE PLACE
SEATTLE, WA 98101
HYPERBUILD

PROJECT REVISIONS

REV	DATE	DESCRIPTION OF CHANGE	BY	QC
1	08/16/22	SDOT REVISION 1	ALC	NP

PROJECT CODE: 17-050
DATE: 2/8/2022
DRAWN BY: JONNY MYRICK
APPROVED BY: NATE PINSON
SCALE: NTS
LEGEND

0 0 0

GENERAL NOTES

STANDARD

1. THE LOCATIONS OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. ALL UTILITY LOCATIONS SHALL BE VERIFIED PRIOR TO CONSTRUCTION. THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE EXCAVATIONS AND BORINGS AHEAD OF THE WORK, AS NECESSARY, TO DETERMINE THE EXACT LOCATIONS OF UTILITIES AND UNDERGROUND STRUCTURES. IT IS UNDERSTOOD THAT THERE WILL BE INTERFERING UTILITIES AND OTHER UNDERGROUND PIPES, DRAINS OR STRUCTURES ENCOUNTERED THAT ARE NOT SHOWN OR AREAS SHOWN INCORRECTLY ON THE PLANS OR THAT HAVE NOT BEEN PREVIOUSLY DISCOVERED IN THE FIELD. THE CONTRACTOR AGREES THIS IS A NORMAL AND USUAL OCCURRENCE IN THE CONSTRUCTION OF UNDERGROUND IMPROVEMENTS. FURTHERMORE, CONTRACTORS UNDERSTAND AND AGREE THAT WORK IN SOME CASES PROPOSED PATH MAYBE IN CLOSE PROXIMITY TO SAID UTILITIES AND UNDERGROUND PIPES, DRAINS AND STRUCTURES NOT SHOWN ON THE PLANS WHICH MAY REQUIRE A CHANGE IN OPERATIONS AND MAY CAUSE SLOUGHING OF THE TRENCH, ADDITIONAL TRAFFIC CONTROL, ADDITIONAL PAVEMENT AND BACKFILL COSTS AND TIME. THE CONTRACTOR AGREES THAT A REASONABLE NUMBER OF THESE OCCURRENCES IS USUAL AND ORDINARY, AND ARE REFLECTED IN THE BID AND PLAN OF OPERATION. THE CONTRACTORS AGREES TO PROVIDE FOR THESE CONFLICTS AND AGREES TO PROVIDE FOR A REASONABLE AMOUNT OF TIME FOR DESIGN CHANGES AND/OR UTILITY RELOCATIONS DUE TO SAID CONFLICTS.

2. CALL THE UTILITIES UNDERGROUND LOCATION CENTER AT 811

3. INSPECTIONS - THE CONTRACTOR SHALL NOTIFY LOCAL JURISDICTIONS FOR REQUIRED INSPECTION SERVICES.

4. EXCESS WATER - SHOULD WATER BE ENCOUNTERED DURING CONSTRUCTION, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DEWATER, AS PER LOCAL JURISDICTIONS STANDARD SPECIFICATIONS, BEFORE CONSTRUCTION CONTINUES.

5. NO SILT LADEN WATER IS TO BE DISCHARGED FROM THE SITE WITHOUT PASSING THROUGH AN EROSION CONTROL SYSTEM.

6. THE CONTRACTOR SHALL SCHEDULE AND CONTROL HIS/HER WORK SO AS TO COMPLY WITH ALL APPLICABLE ORDINANCES TO PREVENT ANY HAZARDS TO PUBLIC SAFETY, HEALTH AND WELFARE.

7. ALL STREETS SHALL BE KEPT FREE OF DIRT AND DEBRIS ON A CONTINUOUS BASIS.

8. AN APPROVED COPY OF THESE PLANS WILL BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

9. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE CONDITIONS OF THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THIS REQUIREMENT WILL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.

10. PEDESTRIAN AND VEHICULAR ACCESS TO ADJACENT PROPERTIES SHALL BE MAINTAINED AT ALL TIMES EXCEPT WHERE PRIOR WRITTEN APPROVAL FROM THE PROPERTY OWNER HAS BEEN OBTAINED.

11. BARRICADE OPEN DEPRESSIONS AND HOLES OCCURRING AS PART OF THIS WORK, AND POST WARNING LIGHTS ON ADJACENT PROPERTIES WITH PUBLIC ACCESS. OPERATE WARNING LIGHTS DURING HOURS FROM DUSK TO DAWN EACH DAY AND AS OTHERWISE REQUIRED.

12. PROTECT STRUCTURES, UTILITIES, PAVEMENTS, AND OTHER FACILITIES FROM DAMAGE CAUSED BY SETTLEMENT, LATERAL MOVEMENT, UNDERMINING WASHOUT AND OTHER HAZARDS CREATED BY OPERATIONS UNDER THIS SECTION.

TRAFFIC CONTROL

1. THE CONTRACTOR IS ADVISED THAT ALL LANE CLOSURES SHALL BE KEPT TO A MINIMUM. LOCAL JURISDICTIONS WILL APPROVE ONLY THOSE LANE AND ROADWAY CLOSURES DETERMINED TO BE NECESSARY FOR THE CONTRACTOR TO ACCOMPLISH A SPECIFIC TASK. NO LANE OR ROADWAY CLOSURES WILL BE PERMITTED WITHOUT PRIOR APPROVALS.

2. THE CONTRACTOR SHALL KEEP ALL TRAFFIC LANES AND SHOULDERS CLEAR OF EQUIPMENT AND MATERIALS DURING NON-WORKING HOURS. EQUIPMENT AND MATERIALS SHALL NOT BE STORED ON THE STREETS. THE CONTRACTOR'S EMPLOYEES AND AGENTS SHALL NOT PARK PRIVATE VEHICLES ALONG THE ROADWAY OR MEDIAN.

SITE PREPARATION

1. SOD AND LAWN TO BE REMOVED SHALL BE CUT TO A NEAT VERTICAL LINE 6" MINIMUM BEYOND THE TRENCH LINE. SOD SHALL BE EITHER REMOVED FROM THE SITE, OR CAREFULLY STOCKPILED FOR REUSE.

2. SAW CUT PAVEMENT TO A NEAT VERTICAL LINE 8" TO 12" MINIMUM BEYOND THE TRENCH LINE. REPLACE PAVEMENT WITH LIKE MATERIAL (I.E., ASPHALT WITH ASPHALT, CONCRETE WITH CONCRETE).

3. EXCEPT AS NOTED HEREIN, ALL MATERIAL REMOVED SHALL BE TAKEN FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR.

TRENCH EXCAVATION AND BACKFILL

1. TRENCH BACKFILL - WHERE MATERIAL EXCAVATED FROM TRENCHES IS UNSUITABLE FOR BACKFILL, THE CONTRACTOR SHALL BACKFILL WITH BANK RUN GRAVEL OR MAY ELECT TO USE CDF IN LIEU OF THE COMPACTION/PROCTOR PROCESS. STONEWAY MIX 351 IS ACCEPTABLE IN ALL LOCATIONS. QUICK SETTING MIX 1004 IS ACCEPTABLE IN NON-TRAFFIC AREAS. MIX 1121 IS TO BE USED IN TRAFFIC-BEARING LOCATIONS.

2. COMPACTION, WHEN NECESSARY, SHALL BE PERFORMED IN ACCORDANCE WITH LOCAL JURISDICTION REQUIREMENTS.

UTILITY DUCT

1. BURIED DUCT SHALL BE (1) 4" SCHEDULE 40 PVC, UNLESS NOTED OTHERWISE. MINIMUM CONDUIT COVER SHALL BE 36" WITH A MINIMUM SLOPE OF 1/2 % TO VAULT.

2. THOROUGHLY CLEAN CONDUIT BEFORE USING OR LAYING. DURING CONSTRUCTION AND AFTER THE DUCT LINE IS COMPLETED, PLUG ENDS OF CONDUITS TO PREVENT WATER WASHING INTO CONDUIT OR MANHOLES, TAKE PARTICULAR CARE TO KEEP CONDUITS CLEAR OF CONCRETE, DIRT AND ANY OTHER SUBSTANCE DURING THE COURSE OF CONSTRUCTION.

3. AFTER DUCT PLACEMENT HAS BEEN COMPLETED, PROOF AND CLEAN DEBRIS FROM EACH DUCT, ITS ENTIRE LENGTH. INSTALL PULL ROPE AND PLACE WATERTIGHT COMPRESSION PLUGS AT BOTH ENDS. ANY CONDUITS CONTAINING FIBER CABLE WILL REQUIRE SIMPLEX COMPRESSION PLUGS SEALING THE CONDUITS AROUND THE CABLE.

4. OUTSIDE INNERDUCT SHALL BE 1-1/4" OPTIC-GUARD NON-METALLIC FLEXIBLE, IN COLOR SUCH AS RED OR ORANGE, WITH PULL ROPES AND PLUGS. EXPOSED INNERDUCT INSIDE OF BUILDINGS SHALL BE PLENUM-RATED.

CEMENT CONCRETE PAVEMENT

1. ALL CONCRETE PAVEMENT REMOVED OR DAMAGED BY THIS WORK SHALL BE REPLACED ACCORDING TO THE STANDARD SPECIFICATIONS OF EACH JURISDICTION.

ASPHALT CONCRETE PAVEMENT

1. ALL ASPHALT CONCRETE PAVEMENT REMOVED OR DAMAGED BY THIS WORK SHALL BE REPLACED WITH CLASS B ASPHALT CONCRETE ACCORDING TO THE REQUIREMENTS OF EACH JURISDICTION.

GRAVEL AREAS

1. ALL GRAVEL AREAS DAMAGED OR REMOVED BY THIS WORK SHALL BE REPLACED WITH CRUSHED SURFACING TOP COURSE IN ACCORDANCE WITH THE REQUIREMENTS OF EACH JURISDICTION.

SITE RESTORATION

1. ALL DISTURBED OR DAMAGED AREAS SHALL BE RESTORED TO A CONDITION EQUAL TO, OR BETTER THAN, THAT WHICH EXISTED PRIOR TO PLACEMENT OF THE CONDUIT AND STRUCTURES.

2. VEGETATION REMOVED FOR THIS WORK SHALL BE REPLACED WITH IN-KIND PLANT MATERIAL AND SHALL BE PROPERLY PLANTED AND WATERED IN TO ENSURE ITS SURVIVAL.

3. SITE RESTORATION SHALL INCLUDE REPLACING EXISTING CABLING AND PULL ROPES IN EXISTING CONDUITS AS THEY EXISTED PRIOR TO CONSTRUCTION.

WATER QUALITY

1. CONSTRUCTION ACTIVITIES OCCURRING ADJACENT TO STORM DRAINAGE STRUCTURES SHALL COMPLY WITH THE STATE OF WASHINGTON'S WATER QUALITY STANDARDS

2. THE CONTRACTOR SHALL LIMIT THE USE OF PETROLEUM PRODUCTS ON THE SITE.

DIRECTIONAL BORING

1. WHEN BORING ROADWAYS, INSTALL (1) 4" SCHEDULE 40 PVC CONDUIT WITH PULL ROPES AND PLUGS.

2. PROTECT EXISTING UTILITIES -- COORDINATE WITH LOCAL JURISDICTIONS TO POTHOLE AS REQUIRED TO LOCATE EXISTING UTILITIES.

FIRE PROTECTION

1. ALL INSTALLED BACKBOARDS SHALL BE PAINTED WITH FIRE-RESISTANT PAINT.

2. ALL FIRE SEALED DUCT ENDS AND CORES SHALL BE 2 HOUR FIRE-RATED. ALL FIRE SEAL IN EXISTING LOCATIONS SHALL BE REPAIRED OR REPLACED UPON DUCT OR CABLE PLACEMENT.

AERIAL INSTALLATION

1. ALL AERIAL CONSTRUCTION IS TO BE PERFORMED TO INDUSTRY ACCEPTABLE STANDARDS.

2. ALL NEW AERIAL (AND EXISTING) CABLE HEIGHTS OF ATTACHMENT TO BE DOCUMENTED AT TIME OF CONSTRUCTION.

3. 6.35 MM STRAND TO BE USED WITH STANDARD 1/4" POLE LINE HARDWARE UNLESS OTHERWISE SPECIFIED. BOND STRAND TO POWER MAIN WHERE APPLICABLE.

4. ALL ANCHORS TO BE USED WILL BE 3/4" SCREW TYPE.

5. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN AND FOLLOW ALL NESC CODES ALONG WITH APPLICABLE LOCAL AND REGIONAL GOVERNING AUTHORITIES. ANY DISCREPANCIES BETWEEN THESE AUTHORITIES AND OR THE CONSTRUCTION PERMITS IS TO BE VALIDATED WITH THE DESIGNER OR ENGINEER PRIOR TO CONSTRUCTION.

COMCAST

JB0000801930
1501 PIKE PLACE
SEATTLE, WA 98101

HYPERBUILD

PROJECT REVISIONS

REV	DATE	DESCRIPTION OF CHANGE	BY	QC
1	08/16/22	SDOT REVISION 1	ALC	NP

PROJECT CODE:	17-050
DATE:	2/8/2022
DRAWN BY:	JONNY MYRICK
APPROVED BY:	NATE PINSON
SCALE:	NTS

GENERAL NOTES

0 0 0

DRAINAGE SYSTEM DISCLAIMER

EXISTING DRAINAGE SYSTEM (GRATE INLET, DITCH, ETC.) SHALL BE PROTECTED AND FUNCTIONAL THROUGHOUT THE CONSTRUCTION PROJECT. IF ANY PARTS OF THE SYSTEM ARE IMPACTED BY CONSTRUCTION ACTIVITIES, THEY SHALL BE RESTORED TO THE ORIGINAL CONDITIONS.

CONSTRUCTION NOTES:

1. FIBER TIE IN
2. PROOF & PULL (1) 96CT THROUGH EXISTING CONDUIT
3. DIG & INTERCEPT EXISTING CONDUIT. OVERSET NEW LA444 MANHOLE.
4. OPEN TRENCH. INSTALL (1) NEW 2" CONDUIT & PULL (1) NEW 96CT FIBER THROUGH.

UTILITY DISCLAIMER

ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. LOCATION OF ALL UTILITIES TO BE VERIFIED PRIOR TO CONSTRUCTION. CALL UTILITY UNDERGROUND LOCATION CENTER AT 1-800-424-5555

PROPOSED PATH DISCLAIMERS

1. PROPOSED PATH MAY CHANGE AT TIME OF CONSTRUCTION DUE TO UTILITY LOCATIONS AND INSPECTOR REQUIREMENTS
2. UNKNOWN UTILITY DEPTHS TO BE VERIFIED IN FILED DURING TIME OF CONSTRUCTION

CSWPP LEGEND

CATCH BASIN WITH SOCK

NATIVE TRENCH MATERIAL SHALL BE COVER WITH PROTECTIVE TARP AND SECURED WITH SANDBAGS TO PREVENT RAIN WATER ABSORPTION.

LOCATION	POTHOLE DISCLAIMER
	POTHOLE IS SOFT SURFACES WHEN AVAILABLE. PATCH POTHOLE LOCATION PER LOCAL JURISDICTION SPECIFICATION

POST ALY
PIKE PL
WESTERN AVE
500'
N

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SEATTLE, WA 98101

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PROJECT REVISIONS

REV	DATE	DESCRIPTION OF CHANGE	BY	QC
1	08/16/22	SDOT REVISION 1	ALC	NP

PROJECT CODE: 17-050
DATE: 2/8/2022
DRAWN BY: JONNY MYRICK
APPROVED BY: NATE PINSON
SCALE: NTS
DESIGN

0 0 0

DRAINAGE SYSTEM DISCLAIMER

EXISTING DRAINAGE SYSTEM (GRATE INLET, DITCH, ETC.) SHALL BE PROTECTED AND FUNCTIONAL THROUGHOUT THE CONSTRUCTION PROJECT. IF ANY PARTS OF THE SYSTEM ARE IMPACTED BY CONSTRUCTION ACTIVITIES, THEY SHALL BE RESTORED TO THE ORIGINAL CONDITIONS.

PROPOSED PATH DISCLAIMERS

1. PROPOSED PATH MAY CHANGE AT TIME OF CONSTRUCTION DUE TO UTILITY LOCATIONS AND INSPECTOR REQUIREMENTS
2. UNKNOWN UTILITY DEPTHS TO BE VERIFIED IN FILED DURING TIME OF CONSTRUCTION

UTILITY DISCLAIMER

ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. LOCATION OF ALL UTILITIES TO BE VERIFIED PRIOR TO CONSTRUCTION. CALL UTILITY UNDERGROUND LOCATION CENTER AT 1-800-424-5555

STATION START

STATIONING STARTS AT 10+00 AT THE INTERSECTION OF UNION ST & WESTERN AVE

CSWPP LEGEND

CATCH BASIN WITH SOCK

NATIVE TRENCH MATERIAL SHALL BE COVER WITH PROTECTIVE TARP AND SECURED WITH SANDBAGS TO PREVENT RAIN WATER ABSORPTION.

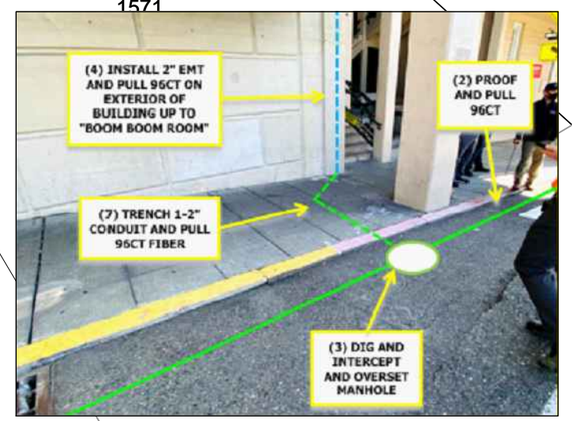
1501 PIKE PLACE
DMARK FOR
SUPPLIED SERVICE

CONSTRUCTION NOTES:

1. DIG & INTERCEPT EXISTING CONDUIT. OVERSET NEW LA444 MANHOLE.
2. OPEN TRENCH. INSTALL (1) NEW 2" CONDUIT & PULL (1) NEW 96CT FIBER THROUGH.
3. INSTALL (1) NEW EMT ON SIDE OF BUILDING AND PULL (1) 96CT FIBER THROUGH TO "BOOM BOOM ROOM"

NARRATIVE DESCRIPTION OF PROJECT:

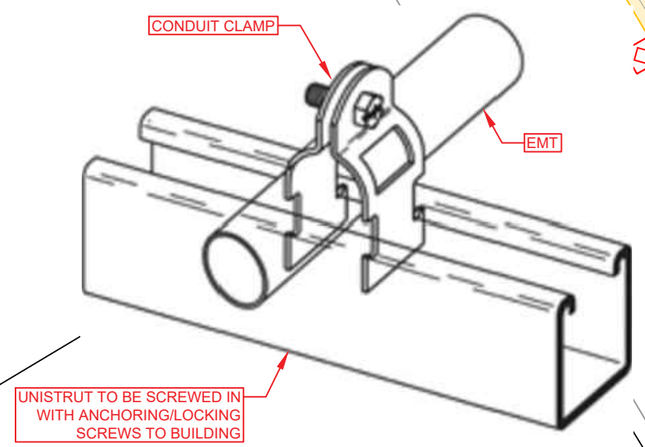
CONTRACTOR TO LOCATE THEN DIG AND INTERCEPT EXISTING CONDUIT AND OVERSET A NEW LA444 MANHOLE ON WESTERN AVE. FROM THERE, CONTRACTOR IS TO LOCATE AND TRENCH FROM NEW MANHOLE TO BUILDING (THROUGH ASPHALT ROADWAY AND CONCRETE SIDEWALK). ALL RESTORATION IS TO BE REPAIRED BACK TO EXISTING CONDITIONS PER SEATTLE SPECIFICATIONS. ON THE BUILDING EXTERIOR, CONTRACTOR IS TO INSTALL NEW UNISTRUT WITH ANCHORING/LOCKING SCREWS. CONTRACTOR TO INSTALL NEW 2" EMT WITH CONDUIT CLAMPS. THIS NEW INSTALLATION IS TO CREATE A CONNECTION TO AN EXISTING PATHWAY LEADING TO A SPLICE CASE (PAGE 4) TO PROVIDE A NEW FIBER PATHWAY TO SUPPLY SERVICE AT 1501 PIKE PLACE..



RESTORATION NOTES:

RESTORE ASPHALT PER CITY OF SEATTLE SPECIFICATIONS.

RESTORE CONCRETE PANELS PER CITY OF SEATTLE SPECIFICATIONS.



N

1R
1
2
3
2R
5'
1'
15' TRENCH
2'
M
1583
1581
1579
1577
1575
1573
1571
ROW
EOP
FL
6" Pipe
20" WATER C.I.P
10" Pipe
30" Pipe STEAM 3'-3' DEPTH
STA 17+65
STA 17+59
STA 17+50
STA 17+14
3-2" DUCTS
US SPRINTS
CROSS WALK LIGHT
2" Insert (7) 6" Gas Std
12" COMMUNICATIONS 3'-4" DEPTH
WESTERN AVE
10
7
4
6

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SEATTLE, WA 98101

HYPERBUILD

PROJECT REVISIONS

REV	DATE	DESCRIPTION OF CHANGE	BY	QC
1	08/16/22	SDOT REVISION 1	ALC	NP

PROJECT CODE:	17-050
DATE:	7/28/2022
DRAWN BY:	JONNY MYRICK
APPROVED BY:	NATE PINSON
SCALE:	1:10
	DESIGN

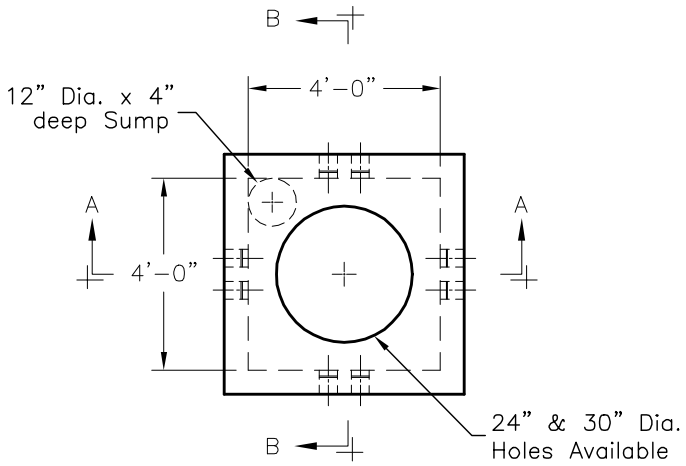
0 10 20


INSTALL NEW JUNCTION BOX AND 2" CORE DRILL
(4) INSTALL 2" EMT AND PULL 96CT ON EXTERIOR OF BUILDING UP TO "BOOM BOOM ROOM"
TRENCH 1-2" CONDUIT AND PULL 96CT FIBER

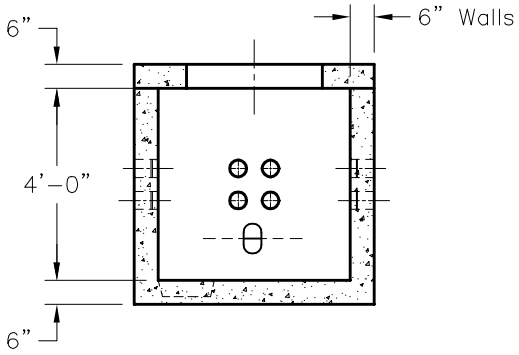

EAST JORDAN IRON WORKS
COMMUNICATION
MADE IN USA
manhole.co.il

GENERAL NOTES:

1. Concrete: 28 Day Compressive Strength f'e = 5,000 psi
2. Steel Reinforcement: ASTM A–615, Grade 60
3. Cover to Steel–1" Minimum
4. Vaults are Designed to Meet ASTM C857 and ACI 318 with AASHTO HS–20 Loading
5. Construction Joint Sealed with 1" Dia. Butyl Rubber or Equivalent
5. Approx. wt. for slab .90 tons and 3.7 tons for base section.
6. Typical termaduct spacing 8" O.C. or as shown.

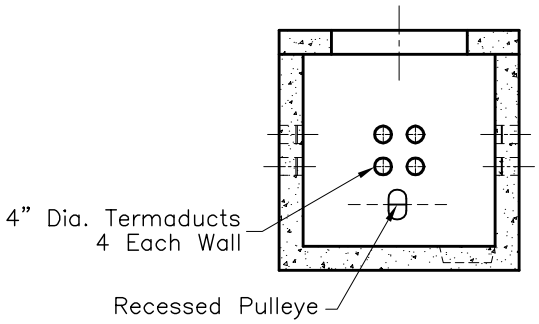


PLAN VIEW



SECTION A-A

NOTE: Opposite Wall is Similar

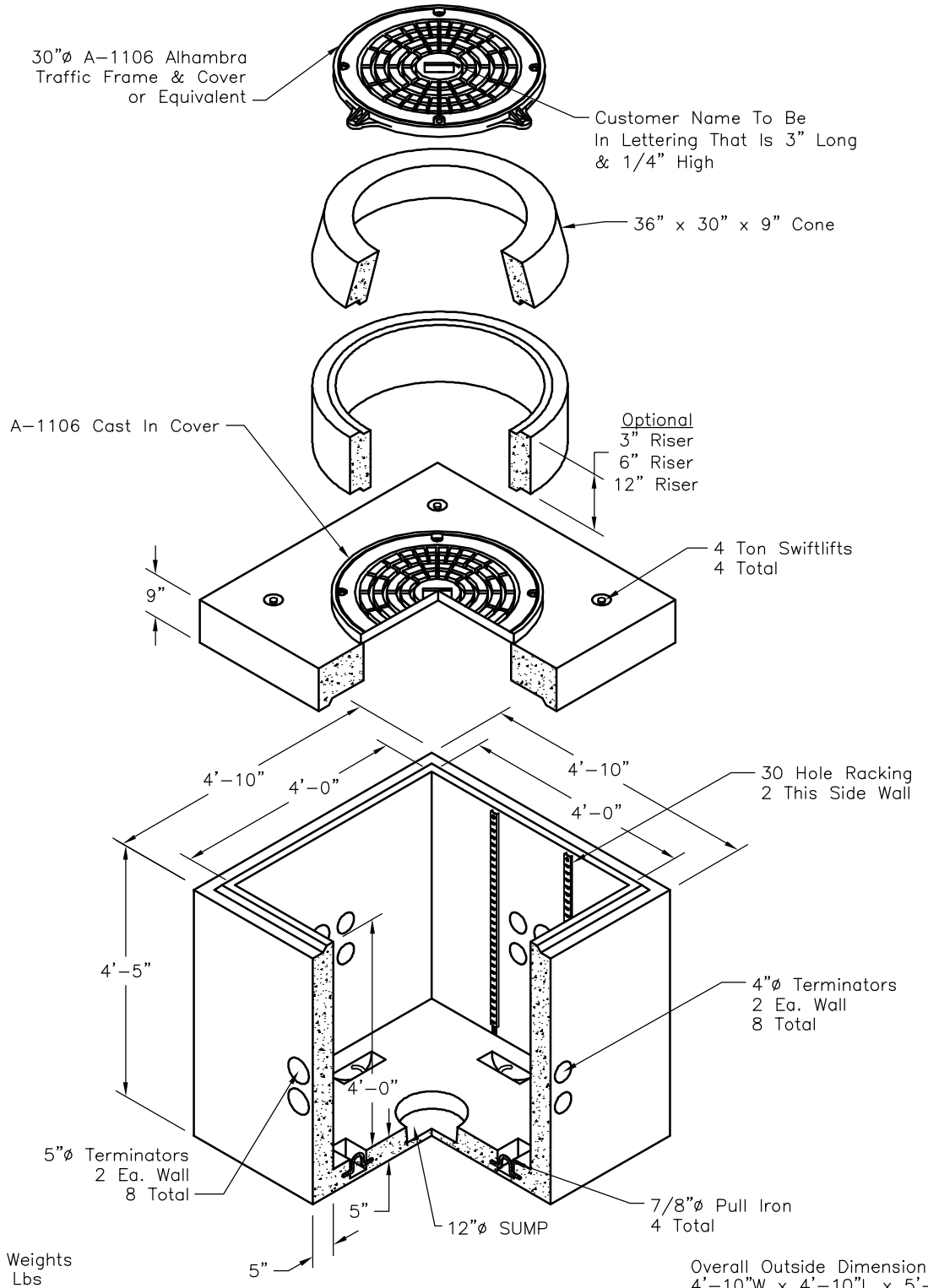


SECTION B-B

NOTE: Opposite Wall is Similar

Oldcastle Precast®

MH4X4X4	4'-0" x 4'-0" x 4'-0" I.D. Communication Vault
FILE NAME: 322UTTMH4X4X4_DET.DWG	
ISSUE DATE: January, 2008	
www.oldcastleprecast.com	



Approximate Weights
Top – 1900 Lbs
Base – 5900 Lbs
12" Ring – 680 Lbs

SCALE:3/8" = 1'–0"

Overall Outside Dimensions
4'–10"W x 4'–10"L x 5'–1"H
Overall Inside Dimensions
4'–0"W x 4'–0"L x 48"H

Oldcastle Precast®
UV UTILITY VAULT™ Division
Southern California
Fontana, San Diego, Santa Paula
Phone: 800–626–3860 Fax: 909–428–3737

TELECOM 4448FO

FILE NAME: 07OUTF4448FOTC.DWG
ISSUE DATE: June 2004
www.oldcastleprecast.com

4'-0" x 4'-0" x 4'-0" Standard Fiber Optic Telecommunications

ETP Steel EMT Set Screw Couplings

5000S Series Couplings

Application

- To ground and secure EMT raceway sections together.

Features

- Heavy steel walls.
- Concretetight when taped.
- Pre-set/pre-staked set screws.
- Three-way combination screws 1/2" thru 1".
- Slotted hexhead screw 1-1/4" thru 4".

Material/Finish

- Steel/zinc plated

Certifications and Compliances

- UL Standard: 514B
- UL Listed: (1/2 - 2) E14895, E14815
- UL Listed: (2-1/2 - 4) E11853, E14814
- CSA Standard: C22.2 No. 18.3
- cUL Listed: E14895, E14815
- CSA Certified: 028507
- NEMA: FB-1

5000US Series Couplings

Application

- To ground and secure EMT raceway sections together.

Features

- Made in the U.S.A.
- Heavy steel walls.
- Concretetight when taped.
- Pre-set/pre-staked set screws.
- Three-way combination screws 1/2” thru 2”.
- Hexhead screws 2-1/2” thru 4”.

Material/Finish

- Steel/zinc plated

Certifications and Compliances

- UL Standard: 514B
- UL Listed: (1/2 - 2) E14815
- CSA Standard: C22.2 No. 18.3
- cUL Listed: (1/2 - 2) E14815
- NEMA: FB-1

5050S — 5100S

5125S — 5400S

5050US – 5200US

5250US – 5400US

Trade Size (Inches)	Catalog Number	Dimensions in Inches/Millimeters Body Length	Maximum Diameter	Weight Lbs. / Kgs. Per 100
1/2	**5050S**	1.75/44.5	0.84/21.3	10.00/4.54
3/4	**5075S**	2.13/54.1	1.08/27.4	16.00/7.26
1	**5100S**	2.50/63.5	1.31/33.3	25.00/11.34
1-1/4	**5125S**	3.25/82.6	1.69/42.9	45.00/20.41
1-1/2	**5150S**	3.75/95.3	1.94/49.3	60.00/27.22
2	**5200S**	4.00/101.6	2.38/60.5	82.00/37.19
2-1/2	**5250S**	4.25/108.0	3.13/79.5	166.00/75.30
3	**5300S**	4.50/114.3	3.75/95.3	213.00/96.62
3-1/2	**5350S**	4.75/120.7	4.25/108.0	260.00/117.93
4	**5400S**	5.00/127.0	4.75/120.7	300.00/136.08

Trade Size (Inches)	Catalog Number	Dimensions in Inches/Millimeters Body Length	Maximum Diameter
1/2	**5050US**	1.50/38.1	0.88/22.4
3/4	**5075US**	1.50/38.1	1.13/28.7
1	**5100US**	1.88/47.8	1.41/35.8
1-1/4	**5125US**	2.19/55.6	1.75/44.5
1-1/2	**5150US**	2.59/65.8	2.03/51.6
2	**5200US**	2.69/68.3	2.50/63.5
2-1/2	**5250US**	2.75/69.9	3.94/100.1
3	**5300US**	3.13/79.5	4.56/115.8
3-1/2	**5350US**	3.16/80.3	5.06/128.5
4	**5400US**	3.38/85.9	5.72/145.3

ALLIED E-Z PULL® EMT

Quality Electrical Metallic Tubing...

With the E-Z Pull® interior coating!

Allied E-Z Pull® EMT has a special low friction ID coating that greatly improves the slip properties between conduit and wire. E-Z Pull® EMT, wire pulls through the conduit smoothly and easily.

Allied E-Z Pull® EMT combines strength with ductility, resulting in faster and easier installations. It provides easy bending, cutting and joining while resisting flattening, kinking and splitting, creating smooth, continuous raceways for fast wire pulling.

allied TUBE & CONDUIT

- **E-Z Pull® special low friction ID coating**
- **Patented Flo-Coat® triple layer OD protection**
- **High grade durable & ductile steel for long life**
- **U.L. listed & meets all applicable standards**
- **Available in size 1/2 to 4**

If you require kwik installations...

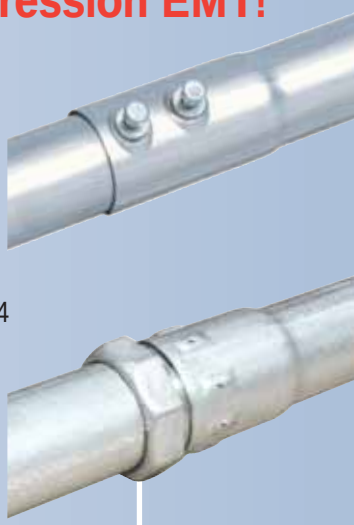
Get Kwik-Fit® EMT & Compression EMT!

Innovations from the conduit leaders at Allied.

Kwik-Fit® EMT has an integral steel set-screw coupling formed on one end of each length of EMT. Trade sizes 2-4

Kwik-Fit® Compression EMT has an integral steel compression fitting formed on one end of each length of EMT. Trade sizes 2 1/2-4

Kwik products are U.L. listed which ensures an all steel system Both conduit and coupling for excellent strength and ground return, as well as economy. Contact Allied for details.



Contact your local Allied Tube & Conduit electrical distributor, or visit www.alliedeg.com.

ALLIED E-Z PULL® EMT

allied TUBE & CONDUIT

E-Z Pull® EMT Specifications

Manufactured for Long Life

Allied EMT is precision manufactured from high grade mild strip steel for exceptional durability and long-lasting life. Allied EMT is hot galvanized using Allied's patented in-line Flo-Coat® process. This process combines zinc, a conversion coating, and a clear organic polymer top-coat to form a triple layer of protection against corrosion and abrasion.

EMI SHIELDING

Allied EMT greatly reduces electromagnetic fields, effectively shielding computers and sensitive electronic equipment from the electromagnetic interference caused by power distribution systems.

FULL CODES & STANDARDS COMPLIANCE

Allied EMT is listed to Underwriters Laboratories Safety Standard UL 797 and meets ANSI C80.3, which have been adopted as federal specifications in lieu of WWC 563. EMT is recognized as an equipment grounding conductor by NEC Section 250-118. Documentation for compliance with NEC Article 250 is also available in the **GEMI** (**G**rounding and **E**lectro-**M**agnetic **I**nterference) analysis software and related research studies found at the www.alliedeg.com website.

Installation of EMT shall be in accordance with the National Electrical Code and the UL listing information. Allied EMT is listed in category FJMX. Master bundles conform to NEMA Standard RN2.

SPECIFICATION DATA

To specify Allied EMT, include the following: Electrical Metallic Tubing shall be equal to that manufactured by Allied Tube & Conduit Corporation. EMT shall be hot galvanized steel O.D. with an organic corrosion resistant I.D. coating and shall be produced in accordance with U.L. Safety Standard #797 and ANSI C80.3 and shall be listed by a nationally recognized testing laboratory with follow-up service.

Where **Kwik-Fit® EMT** is used it shall also meet U.L. Safety Standard #514-B. Note that these U.L. and ANSI standards have been adopted by the federal government and separate military specifications no longer exist.

Weights and Dimensions for Electrical Metallic Tubing

Trade Size Designator		*Approx. Wt. Per 100 Ft. (30.5M)*		*Nominal Outside Diameter*[1]		*Nominal Wall Thickness*		*Quantity In Master Bundle*	
U.S.	**Metric**	**lb.**	**kg.**	**in.**	**mm**	**in.**	**mm**	**ft.**	**m**
1/2	16	30	13.6	0.706	17.9	0.042	1.07	7000	2135.0
3/4	21	46	20.9	0.922	23.4	0.049	1.25	5000	1525.0
1	27	67	30.4	1.163	29.5	0.057	1.45	3000	915.0
1-1/4	35	101	45.8	1.510	38.4	0.065	1.65	2000	610.0
1-1/2	41	116	52.6	1.740	44.2	0.065	1.65	1500	457.5
2	53	148	67.1	2.197	55.8	0.065	1.65	1200	366.0
2-1/2	63	216	98.0	2.875	73.0	0.072	1.83	610	186.1
3	78	263	119.3	3.500	88.9	0.072	1.83	510	155.6
3-1/2	91	249	158.3	4.000	101.6	0.083	2.11	370	112.9
4	103	393	178.2	4.500	114.3	0.083	2.11	300	91.5

[1]Outside diameter tolerances:

+/- .005 in. (.13mm) for trade sizes 1/2 (16mm) through 2 (53mm);
+/- .010 in. (.25mm) for trade sizes 2-1/2 (63mm);
+/- .015 in. (.38mm) for trade size 3 (78mm);
+/- .020 in. (.51mm) for trade sizes 3-1/2 (91mm) and 4 (103mm).

NOTE: Length = 10 ft. (3.05m) with a tolerance of ± .25 in. (6.35 mm)

Weights and Dimensions for Kwik-Fit EMT

Trade Size Designator		*Approx. Wt. Per 100 Ft. (30.5M)*		*Nominal Outside Diameter*[1]		*Nominal Wall Thickness*		*Quantity In Master Bundle*	
U.S.	**Metric**	**lb.**	**kg.**	**in.**	**mm**	**in.**	**mm**	**ft.**	**m**
2	53	148	67.1	2.197	55.8	0.065	1.65	500	152.4
2-1/2	63	216	98.0	2.875	73.0	0.072	1.83	350	106.8
3	78	263	119.3	3.500	88.9	0.072	1.83	300	91.5
3-1/2	91	349	158.3	4.000	101.6	0.083	2.11	250	76.3
4	103	393	178.2	4.500	114.3	0.083	2.11	250	76.3

[1]Outside diameter tolerances:

+/- .005 in. (.13mm) for trade size 2 (53mm);
+/- .010 in. (.25mm) for trade size 2-1/2 (63mm);
+/- .015 in. (.38mm) for trade size 3 (78mm);
+/- .020 in. (.51mm) for trade sizes 3-1/2 (91mm) and 4 (103mm).

NOTE: Length = 10 ft. (3.05m) with a tolerance of ± .25 in. (6.35 mm)

For more information, contact Allied at **(800) 882-5543**, or visit our website at **www.alliedeg.com**

• **Allied Tube & Conduit - Electrical**
16100 S. Lathrop Avenue, Harvey, IL 60426
Tel. 800-882-5543 Fax 708-339-0615

Allied Tube & Conduit
Registered to ISO 9001:2000
File Numbers A2106, A1654, A12768

SCREW-COVER, TYPE 1

APPLICATION

Use this enclosure in commercial and general industrial applications that require a junction or pull box. For flush installations, order flush covers and door frames separately.

FEATURES

- Unique keyhole screw slots in the cover
- Available with or without knockouts. Various sizes of easy-to-remove concentric knockouts on all four sides of standard boxes with knockouts.
- Optional flush-mounted door frame available
- Optional flush covers
- Flat, removable covers fastened with plated steel screws
- Provision for grounding
- Mounting holes on back of box

SPECIFICATIONS

- 16, 14 or 12 gauge steel or plated steel

FINISH

ANSI 61 gray polyester powder paint finish inside and out. Unless otherwise specified, all custom pull boxes are finished with ANSI 61 gray polyester powder paint.

ACCESSORIES

Flush Covers
Flush-Mount Door Frames
Grounding Device
Type 1 Locking Window Pull Box Accessory
Touch-Up Paint

BULLETIN: A90P1

INDUSTRY STANDARDS

UL 50, 50E Listed; Type 1; File No. E27525
cUL Listed per CSA C22.2 No 40; Type 1; File No. E27525

NEMA/EEMAC Type 1
IEC 60529, IP30

Standard Product **Screw-Cover Type 1 Pull Boxes with Knockouts**

Catalog Number	AxBxC in.	AxBxC mm	Style	Number of Cover Screws	Knockout Pattern Along "A" Sides	Knockout Pattern Along "B" Sides
ASE4X4X3	4.00 x 4.00 x 3.00	102 x 102 x 76	Painted	2	B-C	B-C
ASG4X4X3	4.00 x 4.00 x 3.00	102 x 102 x 76	Galvanized	2	B-C	B-C
ASE6X6X3	6.00 x 6.00 x 3.00	152 x 152 x 76	Painted	2	B-C-D	B-C-D
ASG6X6X3	6.00 x 6.00 x 3.00	152 x 152 x 76	Galvanized	2	B-C-D	B-C-D
ASE8X6X3	8.00 x 6.00 x 3.00	203 x 152 x 76	Painted	2	F-G-H-I	B-C-D
ASG8X6X3	8.00 x 6.00 x 3.00	203 x 152 x 76	Galvanized	2	F-G-H-I	B-C-D
ASE16X14X3	16.00 x 14.00 x 3.00	406 x 356 x 76	Painted	4	B-C-D-E-F-G-H	B-C-D-E-F-G-H
ASE18X14X3	18.00 x 14.00 x 3.00	457 x 356 x 76	Painted	4	A-B-C-D-E-F-G-H-I	B-C-D-E-F-G-H
ASE4X4X4	4.00 x 4.00 x 4.00	102 x 102 x 102	Painted	2	B-C	B-C
ASG4X4X4	4.00 x 4.00 x 4.00	102 x 102 x 102	Galvanized	2	B-C	B-C
ASE6X4X4	6.00 x 4.00 x 4.00	152 x 102 x 102	Painted	2	B-C-D	B-C
ASG6X4X4	6.00 x 4.00 x 4.00	152 x 102 x 102	Galvanized	2	B-C-D	B-C
ASE6X6X4	6.00 x 6.00 x 4.00	152 x 152 x 102	Painted	2	B-C-D	B-C-D
ASG6X6X4	6.00 x 6.00 x 4.00	152 x 152 x 102	Galvanized	2	B-C-D	B-C-D
ASE8X6X4	8.00 x 6.00 x 4.00	203 x 152 x 102	Painted	2	F-G-H-I	B-C-D
ASG8X6X4	8.00 x 6.00 x 4.00	203 x 152 x 102	Galvanized	2	F-G-H-I	B-C-D
ASE8X8X4	8.00 x 8.00 x 4.00	203 x 203 x 102	Painted	4	F-G-H-I	F-G-H-I
ASG8X8X4	8.00 x 8.00 x 4.00	203 x 203 x 102	Galvanized	4	F-G-H-I	F-G-H-I
ASE10X8X4	10.00 x 8.00 x 4.00	254 x 203 x 102	Painted	4	F-G-H-I	F-G-H-I
ASG10X8X4	10.00 x 8.00 x 4.00	254 x 203 x 102	Galvanized	4	F-G-H-I	F-G-H-I
ASE10X10X4	10.00 x 10.00 x 4.00	254 x 254 x 102	Painted	4	F-G-H-I	C-D-E-F-G
ASG10X10X4	10.00 x 10.00 x 4.00	254 x 254 x 102	Galvanized	4	F-G-H-I	C-D-E-F-G
ASE12X8X4	12.00 x 8.00 x 4.00	305 x 203 x 102	Painted	4	C-D-E-F-G	F-G-H-I
ASG12X8X4	12.00 x 8.00 x 4.00	305 x 203 x 102	Galvanized	4	C-D-E-F-G	F-G-H-I
ASE12X10X4	12.00 x 10.00 x 4.00	305 x 254 x 102	Painted	4	C-D-E-F-G	C-D-E-F-G
ASG12X10X4	12.00 x 10.00 x 4.00	305 x 254 x 102	Galvanized	4	C-D-E-F-G	C-D-E-F-G
ASE12X12X4	12.00 x 12.00 x 4.00	305 x 305 x 102	Painted	4	C-D-E-F-G	C-D-E-F-G
ASG12X12X4	12.00 x 12.00 x 4.00	305 x 305 x 102	Galvanized	4	C-D-E-F-G	C-D-E-F-G
ASE16X12X4	16.00 x 12.00 x 4.00	406 x 305 x 102	Painted	4	B-C-D-E-F-G-H	C-D-E-F-G
ASG16X12X4	16.00 x 12.00 x 4.00	406 x 305 x 102	Galvanized	4	B-C-D-E-F-G-H	C-D-E-F-G
ASE18X12X4	18.00 x 12.00 x 4.00	457 x 305 x 102	Painted	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASG18X12X4	18.00 x 12.00 x 4.00	457 x 305 x 102	Galvanized	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASE18X18X4	18.00 x 18.00 x 4.00	457 x 457 x 102	Painted	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASG18X18X4	18.00 x 18.00 x 4.00	457 x 457 x 102	Galvanized	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X12X4	24.00 x 12.00 x 4.00	610 x 305 x 102	Painted	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASE24X24X4	24.00 x 24.00 x 4.00	610 x 610 x 102	Painted	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASG24X24X4	24.00 x 24.00 x 4.00	610 x 610 x 102	Galvanized	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE30X24X4	30.00 x 24.00 x 4.00	762 x 610 x 102	Painted	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I

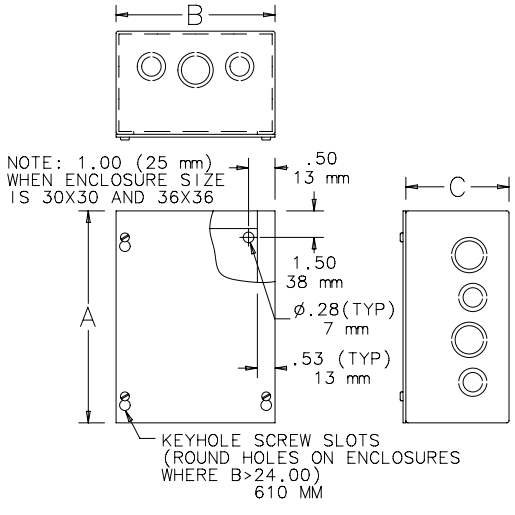
Catalog Number	AxBxC in.	AxBxC mm	Style	Number of Cover Screws	Knockout Pattern Along "A" Sides	Knockout Pattern Along "B" Sides
ASE6X6X6	6.00 x 6.00 x 6.00	152 x 152 x 152	Painted	2	B-C-D	B-C-D
ASG6X6X6	6.00 x 6.00 x 6.00	152 x 152 x 152	Galvanized	2	B-C-D	B-C-D
ASE8X6X6	8.00 x 6.00 x 6.00	203 x 152 x 152	Painted	4	F-G-H-I	B-C-D
ASE8X8X6	8.00 x 8.00 x 6.00	203 x 203 x 152	Painted	4	F-G-H-I	F-G-H-I
ASG8X8X6	8.00 x 8.00 x 6.00	203 x 203 x 152	Galvanized	4	F-G-H-I	F-G-H-I
ASE10X8X6	10.00 x 8.00 x 6.00	254 x 203 x 152	Painted	4	F-G-H-I	F-G-H-I
ASG10X8X6	10.00 x 8.00 x 6.00	254 x 203 x 152	Galvanized	4	F-G-H-I	F-G-H-I
ASE10X10X6	10.00 x 10.00 x 6.00	254 x 254 x 152	Painted	4	F-G-H-I	C-D-E-F-G
ASG10X10X6	10.00 x 10.00 x 6.00	254 x 254 x 152	Galvanized	4	F-G-H-I	C-D-E-F-G
ASE12X10X6	12.00 x 10.00 x 6.00	305 x 254 x 152	Painted	4	C-D-E-F-G	C-D-E-F-G
ASG12X10X6	12.00 x 10.00 x 6.00	305 x 254 x 152	Galvanized	4	C-D-E-F-G	C-D-E-F-G
ASE12X12X6	12.00 x 12.00 x 6.00	305 x 305 x 152	Painted	4	C-D-E-F-G	C-D-E-F-G
ASG12X12X6	12.00 x 12.00 x 6.00	305 x 305 x 152	Galvanized	4	C-D-E-F-G	C-D-E-F-G
ASE16X12X6	16.00 x 12.00 x 6.00	406 x 305 x 152	Painted	4	B-C-D-E-F-G-H	C-D-E-F-G
ASG16X12X6	16.00 x 12.00 x 6.00	406 x 305 x 152	Galvanized	4	B-C-D-E-F-G-H	C-D-E-F-G
ASE16X16X6	16.00 x 16.00 x 6.00	406 x 406 x 152	Painted	4	B-C-D-E-F-G-H	B-C-D-E-F-G-H
ASG16X16X6	16.00 x 15.00 x 6.00	406 x 381 x 152	Galvanized	4	B-C-D-E-F-G-H	B-C-D-E-F-G-H
ASE18X12X6	18.00 x 12.00 x 6.00	457 x 305 x 152	Painted	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASG18X12X6	18.00 x 12.00 x 6.00	457 x 305 x 152	Galvanized	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASE18X18X6	18.00 x 18.00 x 6.00	457 x 457 x 152	Painted	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASG18X18X6	18.00 x 18.00 x 6.00	457 x 457 x 152	Galvanized	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X18X6	24.00 x 18.00 x 6.00	610 x 457 x 152	Painted	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASG24X18X6	24.00 x 18.00 x 6.00	610 x 457 x 152	Galvanized	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X24X6	24.00 x 24.00 x 6.00	610 x 610 x 152	Painted	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASG24X24X6	24.00 x 24.00 x 6.00	610 x 610 x 152	Galvanized	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE30X24X6	30.00 x 24.00 x 6.00	762 x 610 x 152	Painted	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASG30X24X6	30.00 x 24.00 x 6.00	762 x 610 x 152	Galvanized	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE36X24X6	36.00 x 24.00 x 6.00	914 x 610 x 152	Painted	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE8X8X8	8.00 x 8.00 x 8.00	203 x 203 x 203	Painted	4	F-G-H-I	F-G-H-I
ASE12X12X8	12.00 x 12.00 x 8.00	305 x 305 x 203	Painted	4	C-D-E-F-G	C-D-E-F-G
ASG12X12X8	12.00 x 12.00 x 8.00	305 x 305 x 203	Galvanized	4	C-D-E-F-G	C-D-E-F-G
ASE16X12X8	16.00 x 12.00 x 8.00	406 x 305 x 203	Painted	4	B-C-D-E-F-G-H	C-D-E-F-G
ASE18X12X8	18.00 x 12.00 x 8.00	457 x 305 x 203	Painted	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASE24X12X8	24.00 x 12.00 x 8.00	610 x 305 x 203	Painted	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASE24X18X8	24.00 x 18.00 x 8.00	610 x 457 x 203	Painted	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X24X8	24.00 x 24.00 x 8.00	610 x 610 x 203	Painted	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE36X24X8	36.00 x 24.00 x 8.00	914 x 610 x 203	Painted	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE18X12X10	18.00 x 12.00 x 10.00	457 x 305 x 254	Painted	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASE18X18X10	18.00 x 18.00 x 10.00	457 x 457 x 254	Painted	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X18X10	24.00 x 18.00 x 10.00	610 x 457 x 254	Painted	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X24X10	24.00 x 24.00 x 10.00	610 x 610 x 254	Painted	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE36X24X10	36.00 x 24.00 x 10.00	914 x 610 x 254	Painted	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X12X12	24.00 x 12.00 x 12.00	610 x 305 x 305	Painted	4	A-B-C-D-E-F-G-H-I	C-D-E-F-G
ASE18X18X12	18.00 x 18.00 x 12.00	457 x 457 x 305	Painted	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X18X12	24.00 x 18.00 x 12.00	610 x 457 x 305	Painted	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE24X24X12	24.00 x 24.00 x 12.00	610 x 610 x 305	Painted	4	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE30X24X12	30.00 x 24.00 x 12.00	762 x 610 x 305	Painted	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I
ASE36X24X12	36.00 x 24.00 x 12.00	914 x 610 x 305	Painted	6	A-B-C-D-E-F-G-H-I	A-B-C-D-E-F-G-H-I

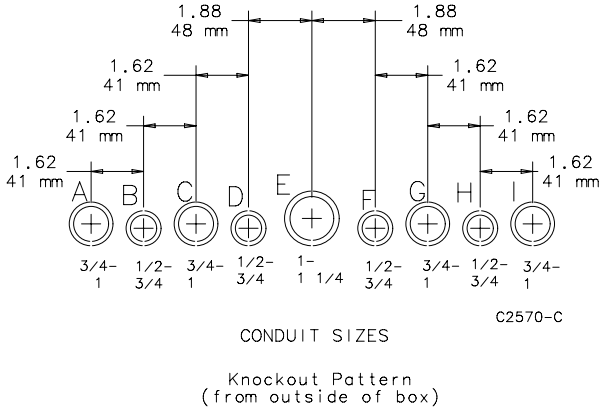
Standard Product **Screw-Cover Type 1 Pull Boxes without Knockouts**

Catalog Number	AxBxC in.	AxBxC mm	Style	Number of Cover Screws
ASE4X4X3NK	4.00 x 4.00 x 3.00	102 x 102 x 76	Painted	2
ASG4X4X3NK	4.00 x 4.00 x 3.00	102 x 102 x 76	Galvanized	2
ASE6X6X3NK	6.00 x 6.00 x 3.00	152 x 152 x 76	Painted	2
ASG6X6X3NK	6.00 x 6.00 x 3.00	152 x 152 x 76	Galvanized	2
ASE8X6X3NK	8.00 x 6.00 x 3.00	203 x 152 x 76	Painted	2
ASG8X6X3NK	8.00 x 6.00 x 3.00	203 x 152 x 76	Galvanized	2
ASE16X14X3NK	16.00 x 14.00 x 3.00	406 x 356 x 76	Painted	4
ASE20X14X3NK	20.00 x 14.00 x 3.00	508 x 356 x 76	Painted	4
ASE4X4X4NK	4.00 x 4.00 x 4.00	102 x 102 x 102	Painted	2
ASG4X4X4NK	4.00 x 4.00 x 4.00	102 x 102 x 102	Galvanized	2
ASE6X4X4NK	6.00 x 4.00 x 4.00	152 x 102 x 102	Painted	2
ASG6X4X4NK	6.00 x 4.00 x 4.00	152 x 102 x 102	Galvanized	2
ASE6X6X4NK	6.00 x 6.00 x 4.00	152 x 152 x 102	Painted	2
ASG6X6X4NK	6.00 x 6.00 x 4.00	152 x 152 x 102	Galvanized	2
ASE8X6X4NK	8.00 x 6.00 x 4.00	203 x 152 x 102	Painted	2
ASG8X6X4NK	8.00 x 6.00 x 4.00	203 x 152 x 102	Galvanized	2
ASE8X8X4NK	8.00 x 8.00 x 4.00	203 x 203 x 102	Painted	4
ASG8X8X4NK	8.00 x 8.00 x 4.00	203 x 203 x 102	Galvanized	4
ASE10X6X4NK	10.00 x 6.00 x 4.00	254 x 152 x 102	Painted	4
ASG10X6X4NK	10.00 x 6.00 x 4.00	254 x 152 x 102	Galvanized	4
ASE10X8X4NK	10.00 x 8.00 x 4.00	254 x 203 x 102	Painted	4
ASG10X8X4NK	10.00 x 8.00 x 4.00	254 x 203 x 102	Galvanized	4
ASE10X10X4NK	10.00 x 10.00 x 4.00	254 x 254 x 102	Painted	4
ASG10X10X4NK	10.00 x 10.00 x 4.00	254 x 254 x 102	Galvanized	4
ASE12X6X4NK	12.00 x 6.00 x 4.00	305 x 152 x 102	Painted	4
ASG12X6X4NK	12.00 x 6.00 x 4.00	305 x 152 x 102	Galvanized	4

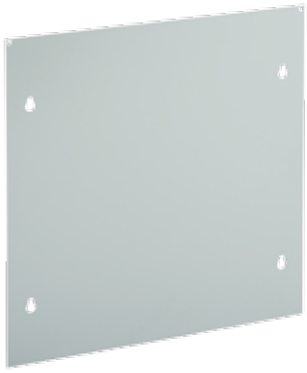
Catalog Number	AxBxC in.	AxBxC mm	Style	Number of Cover Screws
ASE12X8X4NK	12.00 x 8.00 x 4.00	305 x 203 x 102	Painted	4
ASG12X8X4NK	12.00 x 8.00 x 4.00	305 x 203 x 102	Galvanized	4
ASE12X10X4NK	12.00 x 10.00 x 4.00	305 x 254 x 102	Painted	4
ASG12X10X4NK	12.00 x 10.00 x 4.00	305 x 254 x 102	Galvanized	4
ASE12X12X4NK	12.00 x 12.00 x 4.00	305 x 305 x 102	Painted	4
ASG12X12X4NK	12.00 x 12.00 x 4.00	305 x 305 x 102	Galvanized	4
ASE15X15X4NK	15.00 x 15.00 x 4.00	381 x 381 x 102	Painted	4
ASG15X15X4NK	15.00 x 15.00 x 4.00	381 x 381 x 102	Galvanized	4
ASE16X12X4NK	16.00 x 12.00 x 4.00	406 x 305 x 102	Painted	4
ASG16X12X4NK	16.00 x 12.00 x 4.00	406 x 305 x 102	Galvanized	4
ASE18X12X4NK	18.00 x 12.00 x 4.00	457 x 305 x 102	Painted	4
ASG18X12X4NK	18.00 x 12.00 x 4.00	457 x 305 x 102	Galvanized	4
ASE18X15X4NK	18.00 x 15.00 x 4.00	457 x 381 x 102	Painted	4
ASE18X18X4NK	18.00 x 18.00 x 4.00	457 x 457 x 102	Painted	4
ASG18X18X4NK	18.00 x 18.00 x 4.00	457 x 457 x 102	Galvanized	4
ASE24X12X4NK	24.00 x 12.00 x 4.00	610 x 305 x 102	Painted	4
ASE24X18X4NK	24.00 x 18.00 x 4.00	610 x 457 x 102	Painted	4
ASG24X18X4NK	24.00 x 18.00 x 4.00	610 x 457 x 102	Galvanized	4
ASE24X24X4NK	24.00 x 24.00 x 4.00	610 x 610 x 102	Painted	4
ASG24X24X4NK	24.00 x 24.00 x 4.00	610 x 610 x 102	Galvanized	4
ASE30X24X4NK	30.00 x 24.00 x 4.00	762 x 610 x 102	Painted	6
ASE30X30X4NK	30.00 x 30.00 x 4.00	762 x 762 x 102	Painted	8
ASE6X6X6NK	6.00 x 6.00 x 6.00	152 x 152 x 152	Painted	2
ASG6X6X6NK	6.00 x 6.00 x 6.00	152 x 152 x 152	Galvanized	2
ASE8X6X6NK	8.00 x 6.00 x 6.00	203 x 152 x 152	Painted	2
ASG8X6X6NK	8.00 x 6.00 x 6.00	203 x 152 x 152	Galvanized	2
ASE8X8X6NK	8.00 x 8.00 x 6.00	203 x 203 x 152	Painted	4
ASG8X8X6NK	8.00 x 8.00 x 6.00	203 x 203 x 152	Galvanized	4
ASE10X8X6NK	10.00 x 8.00 x 6.00	254 x 203 x 152	Painted	4
ASG10X8X6NK	10.00 x 8.00 x 6.00	254 x 203 x 152	Galvanized	4
ASE10X10X6NK	10.00 x 10.00 x 6.00	254 x 254 x 152	Painted	4
ASG10X10X6NK	10.00 x 10.00 x 6.00	254 x 254 x 152	Galvanized	4
ASE12X6X6NK	12.00 x 6.00 x 6.00	305 x 152 x 152	Painted	4
ASE12X8X6NK	12.00 x 8.00 x 6.00	305 x 203 x 152	Painted	4
ASG12X8X6NK	12.00 x 8.00 x 6.00	305 x 203 x 152	Galvanized	4
ASE12X10X6NK	12.00 x 10.00 x 6.00	305 x 254 x 152	Painted	4
ASG12X10X6NK	12.00 x 10.00 x 6.00	305 x 254 x 152	Galvanized	4
ASE12X12X6NK	12.00 x 12.00 x 6.00	305 x 305 x 152	Painted	4
ASG12X12X6NK	12.00 x 12.00 x 6.00	305 x 305 x 152	Galvanized	4
ASE16X12X6NK	16.00 x 12.00 x 6.00	406 x 305 x 152	Painted	4
ASG16X12X6NK	16.00 x 12.00 x 6.00	406 x 305 x 152	Galvanized	4
ASE16X16X6NK	16.00 x 16.00 x 6.00	406 x 406 x 152	Painted	4
ASG16X16X6NK	16.00 x 16.00 x 6.00	406 x 406 x 152	Galvanized	4
ASE18X12X6NK	18.00 x 12.00 x 6.00	457 x 305 x 152	Painted	4
ASG18X12X6NK	18.00 x 12.00 x 6.00	457 x 305 x 152	Galvanized	4
ASE18X18X6NK	18.00 x 18.00 x 6.00	457 x 457 x 152	Painted	4
ASG18X18X6NK	18.00 x 18.00 x 6.00	457 x 457 x 152	Galvanized	4
ASE24X12X6NK	24.00 x 12.00 x 6.00	610 x 305 x 152	Painted	4
ASG24X12X6NK	24.00 x 12.00 x 6.00	610 x 305 x 152	Galvanized	4
ASE24X18X6NK	24.00 x 18.00 x 6.00	610 x 457 x 152	Painted	4
ASG24X18X6NK	24.00 x 18.00 x 6.00	610 x 457 x 152	Galvanized	4
ASE24X20X6NK	24.00 x 20.00 x 6.00	610 x 508 x 152	Painted	4
ASG24X20X6NK	24.00 x 20.00 x 6.00	610 x 508 x 152	Galvanized	4
ASE24X24X6NK	24.00 x 24.00 x 6.00	610 x 610 x 152	Painted	4
ASG24X24X6NK	24.00 x 24.00 x 6.00	610 x 610 x 152	Galvanized	4
ASE30X24X6NK	30.00 x 24.00 x 6.00	762 x 610 x 152	Painted	6
ASG30X24X6NK	30.00 x 24.00 x 6.00	762 x 610 x 152	Galvanized	6
ASE30X30X6NK	30.00 x 30.00 x 6.00	762 x 762 x 152	Painted	8
ASG30X30X6NK	30.00 x 30.00 x 6.00	762 x 762 x 152	Galvanized	8
ASE36X24X6NK	36.00 x 24.00 x 6.00	914 x 610 x 152	Painted	6
ASG36X24X6NK	36.00 x 24.00 x 6.00	914 x 610 x 152	Galvanized	6
ASE36X30X6NK	36.00 x 30.00 x 6.00	914 x 762 x 152	Painted	8
ASE36X36X6NK	36.00 x 36.00 x 6.00	914 x 914 x 152	Painted	8
ASG36X36X6NK	36.00 x 36.00 x 6.00	914 x 914 x 152	Galvanized	8
ASE8X8X8NK	8.00 x 8.00 x 8.00	203 x 203 x 203	Painted	4
ASG8X8X8NK	8.00 x 8.00 x 8.00	203 x 203 x 203	Galvanized	4
ASE10X10X8NK	10.00 x 10.00 x 8.00	254 x 254 x 203	Painted	4
ASG10X10X8NK	10.00 x 10.00 x 8.00	254 x 254 x 203	Galvanized	4
ASE12X10X8NK	12.00 x 10.00 x 8.00	305 x 254 x 203	Painted	4
ASE12X12X8NK	12.00 x 12.00 x 8.00	305 x 305 x 203	Painted	4
ASG12X12X8NK	12.00 x 12.00 x 8.00	305 x 305 x 203	Galvanized	4
ASE16X12X8NK	16.00 x 12.00 x 8.00	406 x 305 x 203	Painted	4
ASE18X12X8NK	18.00 x 12.00 x 8.00	457 x 305 x 203	Painted	4
ASG18X12X8NK	18.00 x 12.00 x 8.00	457 x 305 x 203	Galvanized	4
ASE18X18X8NK	18.00 x 18.00 x 8.00	457 x 457 x 203	Painted	4
ASG18X18X8NK	18.00 x 18.00 x 8.00	457 x 457 x 203	Galvanized	4
ASE24X12X8NK	24.00 x 12.00 x 8.00	610 x 305 x 203	Painted	4
ASG24X12X8NK	24.00 x 12.00 x 8.00	610 x 305 x 203	Galvanized	4

Catalog Number	AxBxC in.	AxBxC mm	Style	Number of Cover Screws
ASE24X18X8NK	24.00 x 18.00 x 8.00	610 x 457 x 203	Painted	4
ASG24X18X8NK	24.00 x 18.00 x 8.00	610 x 457 x 203	Galvanized	4
ASE24X20X8NK	24.00 x 20.00 x 8.00	610 x 508 x 203	Painted	4
ASG24X20X8NK	24.00 x 20.00 x 8.00	610 x 508 x 203	Galvanized	4
ASE24X24X8NK	24.00 x 24.00 x 8.00	610 x 610 x 203	Painted	4
ASG24X24X8NK	24.00 x 24.00 x 8.00	610 x 610 x 203	Galvanized	4
ASE30X24X8NK	30.00 x 24.00 x 8.00	762 x 610 x 203	Painted	6
ASG30X24X8NK	30.00 x 24.00 x 8.00	762 x 610 x 203	Galvanized	6
ASE30X30X8NK	30.00 x 30.00 x 8.00	762 x 762 x 203	Painted	8
ASG30X30X8NK	30.00 x 30.00 x 8.00	762 x 762 x 203	Galvanized	8
ASE36X24X8NK	36.00 x 24.00 x 8.00	914 x 610 x 203	Painted	6
ASG36X24X8NK	36.00 x 24.00 x 8.00	914 x 610 x 203	Galvanized	6
ASE36X36X8NK	36.00 x 36.00 x 8.00	914 x 914 x 203	Painted	8
ASG36X36X8NK	36.00 x 36.00 x 8.00	914 x 914 x 203	Galvanized	8
ASE12X12X10NK	12.00 x 12.00 x 10.00	305 x 305 x 254	Painted	4
ASG12X12X10NK	12.00 x 12.00 x 10.00	305 x 305 x 254	Galvanized	4
ASE18X12X10NK	18.00 x 12.00 x 10.00	457 x 305 x 254	Painted	4
ASE18X18X10NK	18.00 x 18.00 x 10.00	457 x 457 x 254	Painted	4
ASG18X18X10NK	18.00 x 18.00 x 10.00	457 x 457 x 254	Galvanized	4
ASE24X12X10NK	24.00 x 12.00 x 10.00	610 x 305 x 254	Painted	4
ASE24X18X10NK	24.00 x 18.00 x 10.00	610 x 457 x 254	Painted	4
ASE24X24X10NK	24.00 x 24.00 x 10.00	610 x 610 x 254	Painted	4
ASG24X24X10NK	24.00 x 24.00 x 10.00	610 x 610 x 254	Galvanized	4
ASE30X24X10NK	30.00 x 24.00 x 10.00	762 x 610 x 254	Painted	6
ASE30X30X10NK	30.00 x 30.00 x 10.00	762 x 762 x 254	Painted	8
ASG30X30X10NK	30.00 x 30.00 x 10.00	762 x 762 x 254	Galvanized	8
ASE36X24X10NK	36.00 x 24.00 x 10.00	914 x 610 x 254	Painted	6
ASG36X24X10NK	36.00 x 24.00 x 10.00	914 x 610 x 254	Galvanized	6
ASE36X36X10NK	36.00 x 36.00 x 10.00	914 x 914 x 254	Painted	8
ASG36X36X10NK	36.00 x 36.00 x 10.00	914 x 914 x 254	Galvanized	8
ASE12X12X12NK	12.00 x 12.00 x 12.00	305 x 305 x 305	Painted	4
ASG12X12X12NK	12.00 x 12.00 x 12.00	305 x 305 x 305	Galvanized	4
ASE24X12X12NK	24.00 x 12.00 x 12.00	610 x 305 x 305	Painted	4
ASG24X12X12NK	24.00 x 12.00 x 12.00	610 x 305 x 305	Galvanized	4
ASE18X18X12NK	18.00 x 18.00 x 12.00	457 x 457 x 305	Painted	4
ASG18X18X12NK	18.00 x 18.00 x 12.00	457 x 457 x 305	Galvanized	4
ASE24X18X12NK	24.00 x 18.00 x 12.00	610 x 457 x 305	Painted	4
ASE24X24X12NK	24.00 x 24.00 x 12.00	610 x 610 x 305	Painted	4
ASG24X24X12NK	24.00 x 24.00 x 12.00	610 x 610 x 305	Galvanized	4
ASE30X24X12NK	30.00 x 24.00 x 12.00	762 x 610 x 305	Painted	6
ASE30X30X12NK	30.00 x 30.00 x 12.00	762 x 762 x 305	Painted	8
ASG30X30X12NK	30.00 x 30.00 x 12.00	762 x 762 x 305	Galvanized	8
ASE36X24X12NK	36.00 x 24.00 x 12.00	914 x 610 x 305	Painted	6
ASG36X24X12NK	36.00 x 24.00 x 12.00	914 x 610 x 305	Galvanized	6
ASE36X36X12NK	36.00 x 36.00 x 12.00	914 x 914 x 305	Painted	8
ASG36X36X12NK	36.00 x 36.00 x 12.00	914 x 914 x 305	Galvanized	8
ASE48X48X12NK	48.00 x 48.00 x 12.00	1219 x 1219 x 305	Painted	12
ASG48X48X12NK	48.00 x 48.00 x 12.00	1219 x 1219 x 305	Galvanized	12
ASE30X30X16NK	30.00 x 30.00 x 16.00	762 x 762 x 406	Painted	8
ASE36X36X16NK	36.00 x 36.00 x 16.00	914 x 914 x 406	Painted	8
ASG36X36X16NK	36.00 x 36.00 x 16.00	914 x 914 x 406	Galvanized	8
ASE48X48X16NK	48.00 x 48.00 x 16.00	1219 x 1219 x 406	Painted	12
ASG48X48X16NK	48.00 x 48.00 x 16.00	1219 x 1219 x 406	Galvanized	12



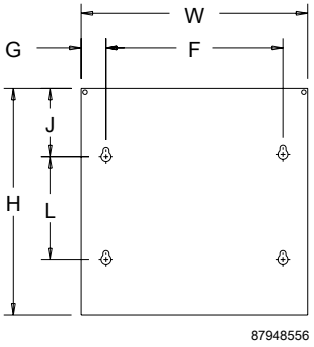


FLUSH COVERS



Designed to mount on enclosure for flush installations. Cover is 16 or 14 gauge steel finished with ANSI 61 gray polyester powder paint.

BULLETIN: A90P1



Standard Product

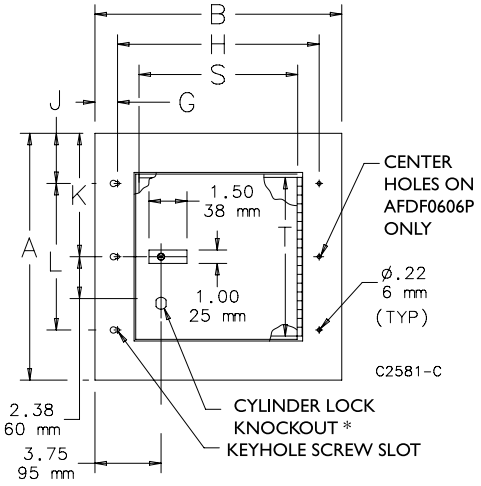
Catalog Number	H in./mm	W in./mm	Fits Box Size A x B in./mm	F in./mm	G in./mm	J in./mm	L in./mm	Cover Gauge
AFE6X6	7.50 191	7.50 191	6.00 x 6.00 152 x 152	5.44 138	1.03 26	3.75 95	— —	16
AFE8X6	9.50 241	7.50 191	8.00 x 6.00 203 x 152	5.44 138	1.03 26	4.75 121	— —	16
AFE8X8	9.50 241	9.50 241	8.00 x 8.00 203 x 203	7.44 189	1.03 26	2.77 70	4.31 109	16
AFE10X8	11.50 292	9.50 241	10.00 x 8.00 254 x 203	7.44 189	1.03 26	2.77 70	6.31 160	16
AFE10X10	11.50 292	11.50 292	10.00 x 10.00 254 x 254	9.44 240	1.03 26	2.77 70	6.31 160	16
AFE12X8	13.50 343	9.50 241	12.00 x 8.00 305 x 203	7.44 189	1.03 26	2.77 70	8.31 211	16
AFE12X12	13.50 343	13.50 343	12.00 x 12.00 305 x 305	11.44 291	1.03 26	2.77 70	8.31 211	16
AFE18X12	19.50 495	13.50 343	18.00 x 12.00 457 x 305	11.44 291	1.03 26	2.77 70	14.31 363	16
AFE18X18	19.50 495	19.50 495	18.00 x 18.00 457 x 457	17.44 443	1.03 26	2.77 70	14.31 363	16
AFE24X18	25.50 648	19.50 495	24.00 x 18.00 610 x 457	17.41 442	1.05 27	2.77 70	20.31 516	14
AFE24X24	25.50 648	25.50 648	24.00 x 24.00 610 x 610	23.41 595	1.05 27	2.77 70	20.31 516	14

FLUSH-MOUNT DOOR FRAMES

Use in Screw-Cover Pull Box telephone cabinet installations or in communication wiring and signal systems. Also as a junction or pull box and switch enclosure.

- Continuous hinge
- Rugged black composite slide latch
- Optional tamper-resistant lock kit includes cylinder lock, tamper-resistant screws and special driver bit.
- Lock Kit: ACLFDF
- 14 gauge steel door frame has ANSI 61 gray polyester powder paint finish

BULLETIN: A90P1



* Not available on AFDF0606P

Standard Product

Catalog Number	Frame Size A x B in./mm	Door Size T in./mm	Door Size S in./mm	Fits Box Size A x B in./mm	G in./mm	H in./mm	J in./mm	K in./mm	L in./mm
AFDF0606P	8.00 x 8.00 203 x 203	3.00 76	3.00 76	6.00 x 6.00 152 x 152	1.28 32	5.44 138	N/A N/A	4.00 102	N/A N/A
AFDF1212P	14.00 x 14.00 356 x 356	9.00 229	9.00 229	12.00 x 12.00 305 x 305	1.28 32	11.44 291	2.84 72	7.00 178	8.31 211
AFDF1812P	20.00 x 14.00 508 x 356	15.00 381	9.00 229	18.00 x 12.00 457 x 305	1.28 32	11.44 291	2.84 72	10.00 254	14.31 364
AFDF1818P	20.00 x 20.00 508 x 508	15.00 381	15.00 381	18.00 x 18.00 457 x 457	1.28 32	17.44 443	2.84 72	10.00 254	14.31 364
AFDF2418P	26.00 x 20.00 660 x 508	21.00 533	15.00 381	24.00 x 18.00 610 x 457	1.28 32	17.44 443	2.84 72	13.00 330	20.31 516
AFDF2424P	26.00 x 26.00 660 x 660	21.00 533	21.00 533	24.00 x 24.00 610 x 610	1.30 33	23.41 595	2.84 72	13.00 330	20.31 516
AFDF3024P	32.00 x 26.00 813 x 660	27.00 686	21.00 533	30.00 x 24.00 762 x 610	1.30 33	23.41 595	2.84 72	16.00 406	26.31 668

TYPE 1 LOCKING WINDOW PULL BOX ACCESSORY

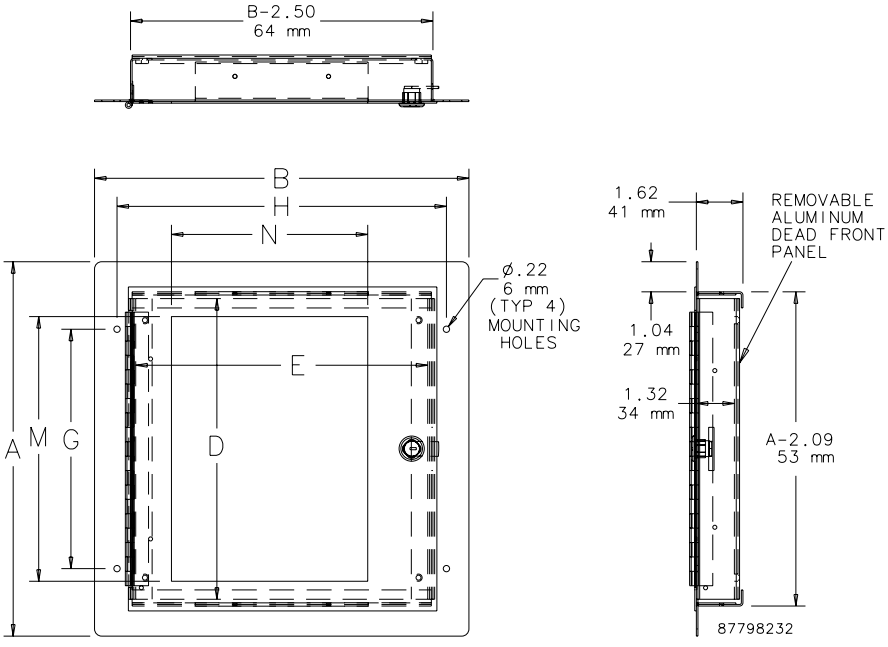
Flush- or surface-mount accessory fits Screw Cover, Type 1, boxes to prevent public access to lighting switches and controls. Includes a removable aluminum dead-front mounting surface for component cutouts and four torx-head screws for securing to enclosure.

BULLETIN: A90P1

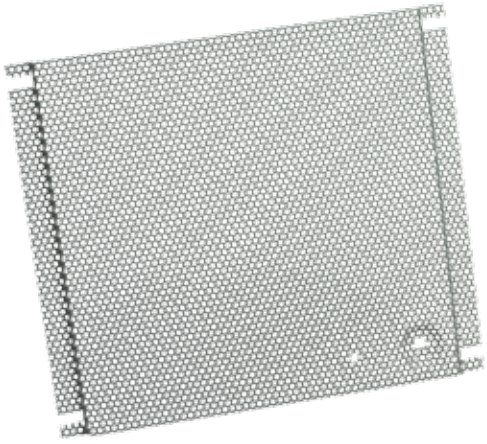
Standard Product

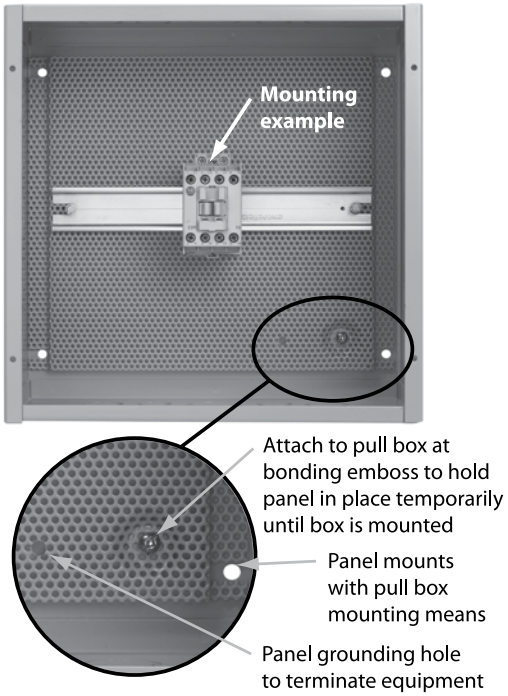
Catalog Number	AxB in./mm	Dead Front Panel Size D x E in./mm	Mounting Holes G x H in./mm	Window Size M x N in./mm	Fits Pull Boxes with A x B dimensions of in./mm
ALDF88W	9.00 x 9.00 229 x 293	6.00 x 6.14 152 x 99	4.31 x 7.44 109 x 189	6.25 x 3.88 164 x 156	8X8 203 x 203
ALDF1212W	13.00 x 13.00 330 x 330	10.00 x 10.14 254 x 200	8.31 x 11.44 211 x 291	10.25 x 7.88 265 x 258	12X12 305 x 305

A x B = Frame Size



TYPE 1 PULL BOX PERFORATED PANEL





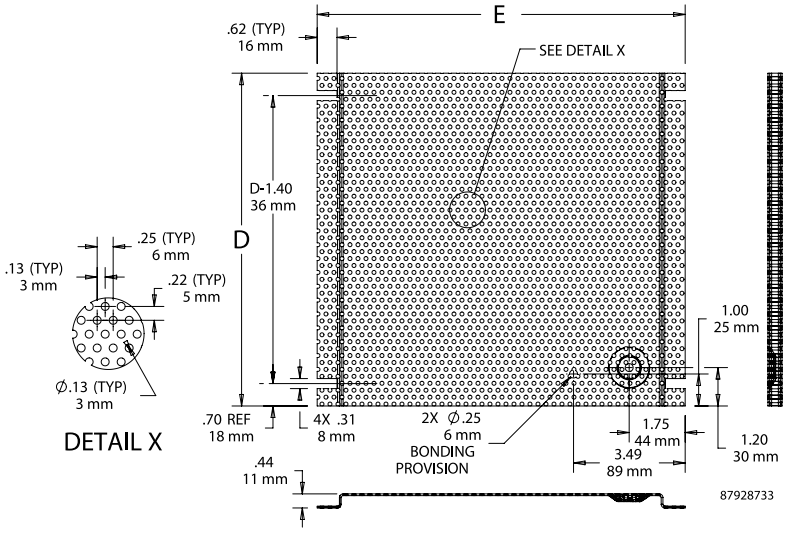
Panel is formed to provide 7/16-in. space off back of pull box for component mounting screw clearance and includes a grounding hole to terminate equipment grounding conductors. Ideal for mounting components that require infrequent access such as control transformers, terminals and contactors.

BULLETIN: PNLP

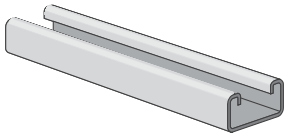
Standard Product

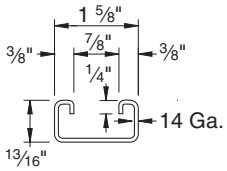
Catalog Number	Panel Gauge	Panel Size D x E (in.)	Panel Size D x E (mm)	Fits Pull Box
PB66PP	16	4.40 x 5.50	112 x 140	ASE6X6X__
PB88PP	16	6.40 x 7.50	163 x 191	ASE8X8X__
PB1212PP	16	10.40 x 11.50	264 x 292	ASE12X12X__
PB1818PP	16	16.40 x 17.50	417 x 445	ASE18X18X__
PB2424PP	16	22.40 x 23.50	569 x 597	ASE24X24X__

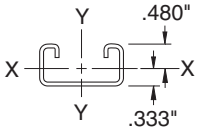
PB1818PP and PB2424PP are flanged on all four sides.



PS 500 – Steel Channel (1⅝" x 13/16" x 14 ga.)



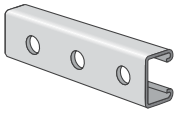


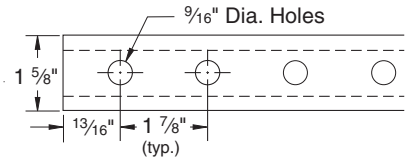


ELEMENTS OF SECTION – PS 500

Weight (lbs./100 ft.)	Area of Section (Inch²)	X-X Axis			Y-Y Axis		
		Moment of Inertia (Inch⁴)	Section Modulus (Inch³)	Radius of Gyration (Inch)	Moment of Inertia (Inch⁴)	Section Modulus (Inch³)	Radius of Gyration (Inch)
98	0.290	0.026	0.054	0.298	0.107	0.132	0.609

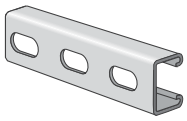
PS 500 H - Channel with Holes

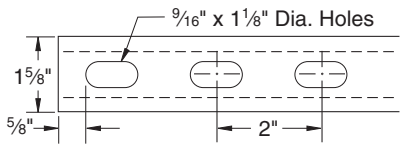




Weight: 87 lbs./100 ft.

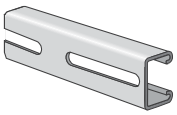
PS 500 EH – Channel with Elongated Holes

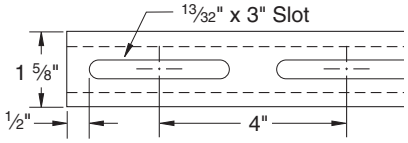




Weight: 87 lbs./100 ft.

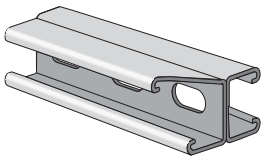
PS 500 S - Channel with Slots

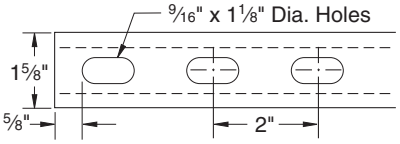




Weight: 87 lbs./100 ft.

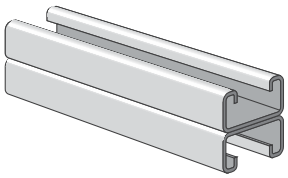
PS 500 2T3 EH – Channel with Elongated Holes

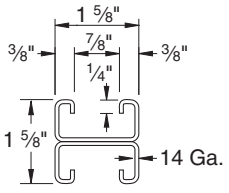


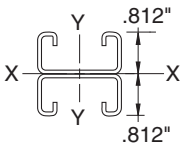


Weight: 174 lbs./100 ft.

PS 500 2T3 – Steel Channel (1⅝" x 1⅝" x 14 ga.)







ELEMENTS OF SECTION – PS 500 2T3

Weight (lbs./100 ft.)	Area of Section (Inch²)	X-X Axis			Y-Y Axis		
		Moment of Inertia (Inch⁴)	Section Modulus (Inch³)	Radius of Gyration (Inch)	Moment of Inertia (Inch⁴)	Section Modulus (Inch³)	Radius of Gyration (Inch)
197	0.579	0.117	0.143	0.449	0.214	0.264	0.608

PS 500 & PS 500 2T3 – Load Data

BEAM LOADING – PS 500

Span (in)	Max Allowable Uniform Load (lb)	Defl. at Uniform Load (in)	Uniform Loading at Deflection		
			Span/180 (lbs)	Span/240 (lbs)	Span/360 (lbs)
24	450	0.11	450	420	280
36	300	0.24	250	190	130
48	230	0.44	140	110	70
60	180	0.67	90	70	50
72	150	0.96	60	50	30
84	130	1.32	50	30	20
96	110	1.67	40	30	20
108	100	2.16	30	20	10
120	90	2.67	20	20	10

* Bearing load may govern capacity.

This load table is based on a solid channel section.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

For Pierced Channels, reduce beam load values as follows:

PS-500-EH 15%
PS-500-S 15%
PS-500-H 10%

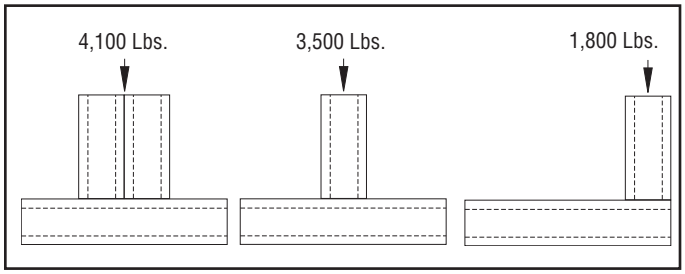
COLUMN LOADING – PS 500

Unbraced Height (in)	Max. Allowable Load at Slot Face (lbs)	Maximum Column Load Applied at C.G.			
		K = 0.65 (lbs)	K = 0.80 (lbs)	K =1.0 (lbs)	K = 1.2 (lbs)
24	1,840	5,610	5,210	4,570	3,850
36	1,640	4,660	3,850	2,800	1,960
48	1,310	3,490	2,480	1,590	1,100
60	1,000	2,400	1,590	**	**
72	770	1,670	1,100	**	**

** KL/r>200

Column loads are for allowable axial loads and must be reduced for eccentric loading.

PS500 – Crush Loads



Resistance to Slip – 1,000 lbs. per bolt when ½" PS NS channel nuts are used.

Pull Out Strength – 1,400 lbs. per bolt when ½" PS NS channel nuts are used.

BEAM LOADING – PS 500 2T3

Span (in)	Max Allowable Uniform Load (lb)	Defl. at Uniform Load (in)	Uniform Loading at Deflection		
			Span/180 (lbs)	Span/240 (lbs)	Span/360 (lbs)
24	1,090 *	0.06	1,090 *	1,090 *	1,090 *
36	800	0.14	800	800	570
48	600	0.25	600	480	320
60	480	0.39	410	310	200
72	400	0.57	280	210	140
84	340	0.76	210	160	100
96	300	1.00	160	120	80
108	270	1.29	130	90	60
120	240	1.57	100	80	50

*Load limited by spot weld shear.

† Bearing load may govern capacity.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8. This load table is based on a solid channel section.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor from page 42.

COLUMN LOADING – PS 500 2T3

Unbraced Height	Max Allowable Load at Slot Face	Max. Column Load Applied at C.G.			
		K = 0.65	K = 0.80	K =1.0	K = 1.2
24	3,240	12,370	11,950	11,370	10,540
36	3,120	11,470	10,540	9,160	7,720
48	2,940	10,090	8,680	6,770	4,980
60	2,680	8,560	6,770	4,590	3,190
72	2,310	7,010	4,980	3,190	2,220
84	1,950	5,530	3,660	2,340	**
96	1,650	4,250	2,800	**	**
108	1,410	3,360	2,220	**	**

** KL/r>200

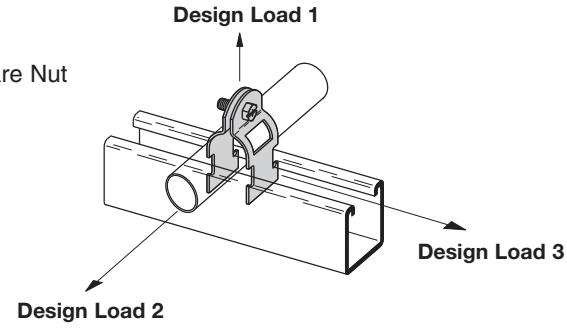
Column loads are for allowable axial loads and must be reduced for eccentric loading.

For Pierced Channels, reduce beam load values as follows:

PS-500 2T3 EH 15%

B2207 THRU B2213
MULTI-GRIP PIPE CLAMPS FOR THINWALL (EMT), I.M.C., RIGID CONDUIT OR PIPE

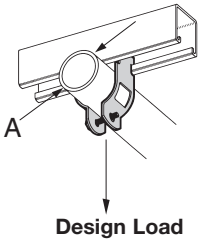
- Safety Factor of 5
- Add PA to suffix for pre-assembled pipe clamps
- Includes Combination Recess Hex Head Machine Screw and Square Nut
- Material: ASTM A1011 33,000 PSI min. yield
- Standard finish: ZN



Part No.	Nominal Size		Material Thickness		O.D. Size Range		Alternate For Clamp No.'s	Design Load 1 Lbs.	kN	Design Load 2 Lbs.	kg	Design Load 3 Lbs.	kg	Wt./C Lbs.	kg
B2207	3/8"	(10)	16 Ga.	(1.5)	.557-.706	(14.2-17.9)	B2000, B2001, B2026	400	(1.78)	50	(.22)	50	(.22)	9	(4.1)
B2208	1/2"	(15)	16 Ga.	(1.5)	.701-.875	(17.8-22.2)	B2001, B2008, B2027, B2028	400	(1.78)	50	(.22)	50	(.22)	11	(5.0)
B2209	3/4"	(20)	14 Ga.	(1.9)	.917-1.081	(23.2-27.4)	B2002, B2009, B2029	400	(1.78)	50	(.22)	50	(.22)	12	(5.4)
B2210	1"	(25)	14 Ga.	(1.9)	1.125-1.375	(28.6-34.9)	B2003, B2010, B2030, B2031, B2032	400	(1.78)	50	(.22)	50	(.22)	13	(5.9)
B2211	1 1/4"	(32)	14 Ga.	(1.9)	1.500-1.691	(38.1-42.9)	B2004, B2011, B2033, B2034	400	(1.78)	50	(.22)	50	(.22)	15	(6.8)
B2212	1 1/2"	(40)	12 Ga.	(2.6)	1.735-1.931	(44.0-49.0)	B2005, B2012, B2035, B2036	600	(2.67)	75	(.33)	75	(.33)	23	(10.4)
B2213	2"	(50)	12 Ga.	(2.6)	2.192-2.400	(55.7-60.9)	B2006, B2013 B2039	600	(2.67)	75	(.33)	75	(.33)	26	(11.8)

BPC-8 THRU BPC-64
BREAK-APART CONDUIT CLAMP

- Design Load 200 Lbs. (.896 kN)
- Includes Combination Recess Hex Head Machine Screw
- Material: ASTM A1011 33,000 PSI min. yield
- Standard finish: ZN



Part No.	A Rigid or EMT Conduit Size		Wt./C Lbs.	kg
BPC-8	1/2"	(21.3)	11.2	(5.1)
BPC-12	3/4"	(26.7)	12.7	(5.8)
BPC-16	1"	(33.4)	14.5	(6.6)
BPC-20	1 1/4"	(42.2)	16.5	(7.5)
BPC-24	1 1/2"	(48.3)	18.5	(8.4)
BPC-32	2"	(60.3)	21.5	(9.8)
BPC-40	2 1/2"	(73.0)	21.5	(9.8)
BPC-48	3"	(88.9)	22.0	(10.0)
BPC-56	3 1/2"	(101.6)	23.0	(10.4)
BPC-64	4"	(114.3)	27.5	(12.5)

Reference page 126 for general fitting and standard finish specifications.

Republic Conduit

Spec Submittal Sheet

Electrunite® Electrical Metallic Tubing (EMT)

Republic Conduit's EMT is designed with the user in mind. It begins with high-quality, flat-rolled steel that is uniquely formulated for its high malleability. After forming and welding, the tubes receive a satin-smooth, corrosion-resistant zinc coating courtesy of Republic's exclusive electro-galvanizing process. Proprietary features such as Inch-Mark and Guide-line* complete the production and result in steel conduit that is simple to install, reduces errors, and saves money.

All Republic Conduit EMT is made from steel which is melted and rolled in the United States.

Specifications

Architects desiring to specify Republic Conduit EMT should include the following description:

Electrical conductors shall be enclosed in Electrunite EMT in accordance with the National Electrical Code (NEC). Electrical metallic tubing shall be mild steel, electrically welded, galvanized and produced to the following specifications:

- UL Standard for Electrical Metallic Tubing – Steel, UL797, File # E7465
- ANSI NEMA Standard for Electrical Metallic Tubing C80.3
- National Electric Code, Article 358
- Master bundle quantities conform to NEMA RN-2 standard

EMT												
Trade Size Designator		Outside Diameter (OD)		Nominal Inside Diameter		Feet/ Bundles	Bundles/ Lift	Standard Lift				
US	Metric	IN	mm	IN	mm			Feet	m	Lbs	kg	TAPE COLOR
½"	16	0.706	17.93	0.622	15.80	100	70	7,000	2,135	2,100	952.4	BLACK
¾"	21	0.922	23.42	0.824	21.00	100	50	5,000	1,525	2,300	1,043.1	RED
1"	27	1.163	29.54	1.049	26.60	100	30	3,000	915	2,010	911.6	BLUE
1 ¼"	35	1.510	38.35	1.380	35.05	50	40	2,000	610	2,020	916.1	RED
1 ½"	41	1.740	44.20	1.610	40.89	50	30	1,500	457.5	1,740	789.1	BLACK
2"	53	2.197	55.80	2.067	52.50			1,200	366	1,775	805.4	
2 ½"	63	2.875	73.03	2.731	69.36			610	186.1	1,318	597.7	
3"	78	3.500	88.90	3.356	85.24			510	155.6	1,341	608.2	
3 ½"	91	4.000	101.6	3.834	97.38			370	112.9	1,291	585.5	
4"	103	4.500	114.3	4.334	110.08			300	91.5	1,179	534.7	

Outside Diameter Tolerances

	in	mm
For trade size through 2"	±0.005	±0.13
For trade size 2 1/2"	±0.010	±0.25
For trade size 3"	±0.015	±0.38
For trade sizes 3 1/2" & 4"	±0.020	±0.51

- The values in feet / pound units are standard. The metric equivalents may be approximate. Conduit is always identified by its English or Metric Trade Size Designator.
- 1/2", 3/4", and 1" sizes of Republic's EMT are furnished bearing the Inch-Marked® and Guide-Lined® trademarks and with diamond-knurled inside finish for easier wire pull/push.
- All sizes furnished in 10' lengths.
- Applicable length tolerance = ±1/4" (±6.35mm).